

Inventor

09/493,891

October 3, 2001

L2 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2001 ACS
AN 1999:617621 HCAPLUS
TI Bioconjugation without linker or activator to polymer platforms with
carboxyl and hydroxy moieties.
AU Martey, Christine A.; Gelormo, David J.; Heindel, Ned D.
; Longton, Wallace A.
CS Department of Chemistry, Lehigh University, Bethlehem, PA, 18015, USA
SO Book of Abstracts, 218th ACS National Meeting, New Orleans, Aug. 22-26
(1999), MEDI-247 Publisher: American Chemical Society, Washington, D. C.
CODEN: 67ZJA5
DT Conference; Meeting Abstract
LA English
AB Many polymers contg. both hydroxyl and carboxyl residues on their backbone
can be internally lactonized without thermal decompn. Such pendant
lactones can be opened with nucleophilic pharmaceuticals to achieve
degrees of substitution which approach the theor. maxima of one drug per
original carboxyl. After model studies opening, with p-methoxybenzyl
amine, the lactones of natural "polymers" of mono-carboxymethylated
glucose - lactonized by flash-heating in xylene - we extended our studies
to the attachment of such pharmaceuticals and biol.-important mols. as
mitoxanthone, ellipticine, aminoglutethimide, finasteride, and tocopherol.
Creating reactive lactones on the polymer avoids the necessity of using
secondary activating adjuvants which leave unused residues on the
macromol. Loading levels obtainable by this method with specific
pharmaceuticals onto dextran, cellulose, and similar biopolymers and the
release kinetics for sample pharmaceuticals will be presented.

102(a)

- L4 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2001 ACS
AN 1998:529836 HCAPLUS
TI Polysaccharide **lactones** as activated carriers for transport and release of therapeutic agents.
AU **Martey, Christine A.; Heindel, Ned D.**
CS Department Chemistry, Lehigh University, Bethlehem, PA, 18015, USA
SO Book of Abstracts, 216th ACS National Meeting, Boston, August 23-27 (1998), MEDI-351 Publisher: American Chemical Society, Washington, D. C.
CODEN: 66KYA2
DT Conference; Meeting Abstract
LA English
AB Carbohydrate polymers have long been known for their low immunogenicity in mammalian systems. As such they represent ideal scaffolds for drug transport and controlled release. We have found that at a degree of substitution near unity in carboxymethylated dextran and cellulose, it is possible to generate a reactive **lactone** by thermally-induced intramol. dehydration. These **lactones** capture amine- or hydrazine-contg. small mols. and release these substances upon hydrolysis and/or enzyme action. They thereby serve as useful macromol. carriers of drug candidates. We have prepd. the internal **lactones** of carboxymethyldextran and CM-cellulose and have employed IR carbonyl bands to track the **lactonization** process and subsequent drug-loading. Benzylamines and anilines have been used as test systems to demonstrate the feasibility of this direct-linking and a no. of pharmaceuticals have been similarly coupled. The half-lives for release indicate the potential of these macromols. for use as in vivo drug depots.
- L4 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2001 ACS
AN 1994:86219 HCAPLUS
DN 120:86219
TI Carboxymethyl dextran **lactone**: A preactivated polymer for amine conjugations
AU **Heindel, Ned D.**; Kauffman, Michael A.; Akyea, Eric K.; Engel, Stephanie A.; Frey, Michael F.; Lacey, C. Jeffrey; Egolf, Roger A.
CS Inst. Health Sci., Lehigh Univ., Bethlehem, PA, 18015, USA
SO Bioconjugate Chem. (1994), 5(1), 98-100
CODEN: BCCHEs; ISSN: 1043-1802
DT Journal
LA English
CC 63-5 (Pharmaceuticals)
Section cross-reference(s): 33
AB The linking of amino haptens to carboxymethyl dextran (CMD) requires carboxyl activation, for example, via carbodiimides. The authors have discovered that substantial N-acylurea, derived from these carbodiimides, can be trapped on the CMD backbone. As an alternative, CMD can be conveniently **lactonized** by heating in inert solvents, and this carboxymethyl dextran **lactone** (CDL) can be employed directly for amine conjugation.
ST carboxymethyl dextran **lactone** amine conjugate prepn; drug targeting carboxymethyl dextran **lactone**
IT Amines, preparation
RL: SPN (Synthetic preparation); PREP (Preparation)
(carboxamidoalkyl, dextrans-contg., prepn. of as drug carriers)
IT Pharmaceutical dosage forms
(carriers, carboxymethyl dextran **lactone** as preactivated polymer for amine conjugation in)

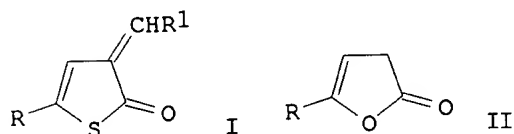
IT 9044-05-7DP, Carboxymethyldextran, methoxybenzylamine derivs.
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and amine conjugation of, as drug carrier)

IT 152287-12-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

IT 152287-12-2DP, methoxybenzylamine derivs.
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, as drug carrier)

IT 2393-23-9DP, 4-Methoxybenzylamine, reaction products with carboxymethyl
 dextrans
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, as drug carriers)

L4 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2001 ACS
 AN 1982:19896 HCAPLUS
 DN 96:19896
 TI Improved synthesis of 3-aralkylidene-5-arylthiophen-2-(3H)ones
 AU Miller, Gerald A.; Heindel, Ned D.; Minatelli, John A.
 CS Dep. Chem., Lehigh Univ., Bethlehem, PA, 18015, USA
 SO J. Heterocycl. Chem. (1981), 18(6), 1253-4
 CODEN: JHTCAD; ISSN: 0022-152X
 DT Journal
 LA English
 CC 27-8 (Heterocyclic Compounds (One Hetero Atom))
 GI



AB 3-Aralkylidene-5-arylthiophen-2(3H)-ones (I; R, R1 = aryl) were prepd. in
 2 steps from 4-aryl-4-oxobutanoic acids via the intermediacy of
 butenolides II and thiophenones generated by the sequential action of
 Ac2O, NaSH and R1CHO.

ST **lactonization** aryloxobutanoic acid; arylbutenolide thiolation
 condensation benzaldehyde; aralkylidenearylthiophenone; thiophenone aryl
 aralkylidene

IT **Lactonization**
 (of aryloxobutanoic acids, arylbutenolides from)

IT Condensation reaction
 (thiolation and, of arylbutenolides with benzaldehyde derivs.,
 aralkylidenethiophenones from)

IT Substitution reaction
 (thiolation, of arylbutenolides, thiophenones from)

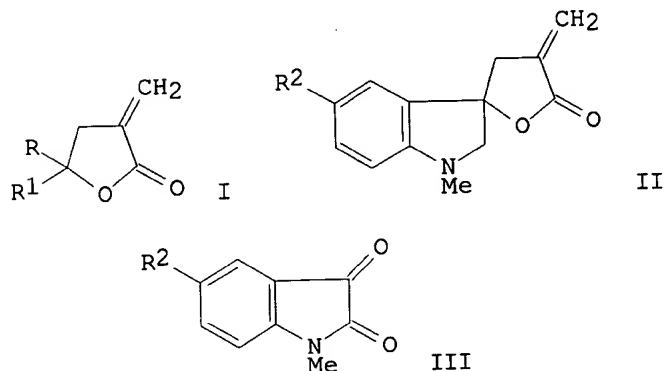
IT 104-88-1, reactions 874-42-0
 RL: RCT (Reactant)
 (condensation of, with arylthiophenone deriv.)

IT 2051-95-8 51036-98-7
 RL: RCT (Reactant)
 (lactonization of)

IT 80224-53-9P 80241-36-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 IT 1955-39-1P 80241-35-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn., thiolation and condensation of, with arom. aldehydes)

L4 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2001 ACS
 AN 1981:192037 HCAPLUS
 DN 94:192037
 TI Synthesis and antibacterial and anticancer evaluations of
 .alpha.-methylene-.gamma.-butyrolactones
 AU Heindel, Ned D.; Minatelli, John A.
 CS Cent. Health Sci., Lehigh Univ., Bethlehem, PA, 18015, USA
 SO J. Pharm. Sci. (1981), 70(1), 84-6
 CODEN: JPMSAE; ISSN: 0022-3549
 DT Journal
 LA English
 CC 27-10 (Heterocyclic Compounds (One Hetero Atom))
 Section cross-reference(s): 1
 GI



AB Butyrolactones I [R = Me, Ph, H; R1 = C6H4(CH2)3CO2Et-p, 2-thienyl, CH2Ph, p-(morpholinosulfonyl)phenyl, etc.] and II (R2 = H, I) were prepd. by Reformatskii condensation of BrCH2C(:CH2)CO2Et with RR1CO or the indoleiones III. I [R = H, R1 = p-(morpholinosulfonyl)phenyl] and II (R2 = I) (IV) had anti-P-388 lymphocytic leukemia activity whereas IV inhibited human carcinoma of the nasopharynx. I and II were also screened for their antibacterial and antifungal activities.

ST butyrolactone anticancer; Reformatskii bromomethylacrylate ketone; antibacterial butyrolactone; fungicide butyrolactone

IT Bactericides, Disinfectants and Antiseptics
 Fungicides and Fungistats
 Neoplasm inhibitors
 (methylenebutyrolactones as, prepn. of)

IT Reformatskii reaction
 (of (bromomethyl)acrylate with ketones)

IT **Lactones**
 RL: SPN (Synthetic preparation); PREP (Preparation)

(.gamma.-, .alpha.-methylene, prepn. of, by Reformatskii reaction of (bromomethyl)acrylate with ketones, antibacterial and anticancer activities of)

IT 122-78-1 135-00-2 2058-74-4 58722-33-1 71665-59-3 76034-84-9
77547-10-5 77547-11-6 77547-12-7
RL: RCT (Reactant)
(Reformatskii reaction of, with (bromomethyl)acrylate)

IT 17435-72-2
RL: RCT (Reactant)
(Reformatskii reaction of, with ketones)

IT 71741-89-4P 77547-02-5P 77547-03-6P 77547-04-7P 77547-05-8P
77547-06-9P 77547-07-0P 77547-08-1P 77547-09-2P
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and anticancer activity of)

L4 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2001 ACS
AN 1972:94616 HCAPLUS
DN 76:94616
TI Synthesis, transformation, and general pharmacologic activity in 1,4-benzodiazepine-3,5-diones
AU Heindel, Ned D.; Fives, William P.; Lemke, Thomas F.; Rowe, Jay E.; Snady, Harry W.; Carrano, Richard A.
CS Dep. Chem., Lehigh Univ., Bethlehem, Pa., USA
SO J. Med. Chem. (1971), 14(12), 1233-5
CODEN: JMCMAR
DT Journal
LA English
CC 1 (Pharmacodynamics)
Section cross-reference(s): 28

AB 7-Halo-, methyl-, or methoxy-substituted 1,4-benzodiazepine-3,5-diones (I) showed only slight general pharmacol. activity when administered i.p. in doses .leq.1000 mg/kg, possibly due to poor absorption.
7-Fluoro-2-methoxycarbonylmethylene-2H-1,4-benzodiazepine-3,5(1H,4H)-dione [34297-51-3] (R = F) showed significant cardiovascular activity when given i.v. to rats. The compds. had low toxicity, as did the intermediates di-Me (2-carboxamidoanilino)fumarates from which I were obtained by cyclization. Hydride redn. of I yielded the 3-hydroxy analogs which were **lactonized** by treatment with alc. alkoxide.

ST benzodiazepinedione cardiovascular activity; diazepinedione benzo pharmacol

IT Circulation
(benzodiazepinediones effect on)

IT 13214-23-8 17244-25-6 17244-26-7 34297-51-3 35514-31-9
35514-33-1 35514-34-2
RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pharmacol. of)

IT 13187-66-1P 13187-67-2P 13214-22-7P 17244-27-8P 35514-23-9P
35514-24-0P 35514-25-1P 35514-26-2P 35514-28-4P 35573-75-2P
35573-77-4P 35721-11-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

(FILE 'HOME' ENTERED AT 14:43:22 ON 03 OCT 2001)

FILE 'WPIX, HCAPLUS' ENTERED AT 14:43:34 ON 03 OCT 2001

L1 192 S (LONGTON W? OR MARTEY C? OR HEINDEL N?)/AU
L2 1 S (LONGTON W? AND MARTEY C? AND HEINDEL N?)/AU
L3 6 S L1 AND LACTON?
L4 5 S L3 NOT L2
SEL RN L3 1-6

*Inventor Name
Search*

FILE 'REGISTRY' ENTERED AT 14:49:53 ON 03 OCT 2001

L5 49 S E1-E49

FILE 'STNGUIDE' ENTERED AT 14:52:34 ON 03 OCT 2001

FILE 'HCAPLUS' ENTERED AT 14:54:35 ON 03 OCT 2001

L6 3182 S ?LACTON?(L) (?STARCH? OR ?CHITOSAN? OR ?DEXTRAN? OR ?CELLULOS?
L7 89 S L6 AND ?CARBOXYMETHYL?
L8 28 S L7 AND PREP/RL
L9 288 S (?LACTON? AND ?CARBOXYMETHYL?)/TI,AB
L10 23 S (LACTON? AND CARBOXYMETHYL?)/TI
L11 258 S (LACTON? AND CARBOXYMETHYL?)/AB
L12 272 S L10 OR L11
L13 288 S (LACTON? AND CARBOXYMETHYL?)/AB,TI
L14 16 S L13 NOT L12
L15 11 S L12 AND L8
SEL RN 1-11

FILE 'REGISTRY' ENTERED AT 15:05:02 ON 03 OCT 2001

L16 222 S E50-E271
L17 1 S DIGLYME/CN

FILE 'REGISTRY' ENTERED AT 15:05:55 ON 03 OCT 2001

FILE 'HCAPLUS' ENTERED AT 15:06:03 ON 03 OCT 2001

L18 11 S L16 AND L15
L19 0 S L17 AND L12
L20 0 S L6 AND L17
L21 79 S L6 AND (XYLENE OR TOLUENE OR ACETONITRILE OR DIGLYME)
L22 78 S L21 NOT L18
E LACTONIZ/CT
E E4+ALL
E E9+ALL
E LACTON/CT
E LACTONIZ/CT
L23 1374 S E4-E10
E LACTONIS/CT
L24 0 S L23 AND L22
L25 4 S L23 AND L13
L26 3 S L25 NOT L18
L27 13858 S LACTON?(L) REACT?
SET ABB ON PERM
L28 13858 S LACTON?(L) REACT?
L29 17 S L28 AND L22
L30 61 S L22 NOT L29

FILE 'CASREACT' ENTERED AT 15:43:40 ON 03 OCT 2001

09/493,891

October 3, 2001

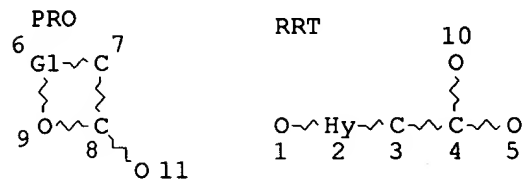
L31 QUE LACTONE/FG.FORM (L) ALCOHOLS/FG.RXN (L) CARBOXYLIC/FG.RXN
L32 1992 S L31
L33 STR
L34 STR L33
L35 2 S L34 SSS SUB=L32 SAM
L36 35 S L34 SSS SUB=L32 FULL
 SAVE L36 LACTONIZA/A

FILE 'HCAPLUS' ENTERED AT 15:59:37 ON 03 OCT 2001
L37 15 S POLYSACCHARID? (L) LACTONIZ?

=> d que 136

L32 1992 SEA FILE=CASREACT ABB=ON PLU=ON LACTONE/FG.FORM (L) ALCOHOLS/
FG.RXN (L) CARBOXYLIC/FG.RXN

L34 STR



This structure Reaction
Search was performed in
CASREACT but the results
were not relevant.

REP G1=(2-3) C

NODE ATTRIBUTES:

CONNECT IS E1 RC AT 1

CONNECT IS E1 RC AT 5

CONNECT IS E1 RC AT 10

CONNECT IS E1 RC AT 11

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE

L36 35 SEA FILE=CASREACT SUB=L32 SSS FUL L34 (77 REACTIONS)

L37 ANSWER 1 OF 15 HCAPLUS COPYRIGHT 2001 ACS

AN 1994:701181 HCAPLUS

DN 121:301181

TI Novel Polysaccharide Surfactants: Synthesis of Model Compounds and Dextran-Based Surfactants

AU Zhang, Tianhong; Marchant, Roger E.

CS Department of Macromolecular Science, Case Western Reserve University, Cleveland, OH, 44106, USA

SO Macromolecules (1994), 27(25), 7302-8
CODEN: MAMOBX; ISSN: 0024-9297

DT Journal

LA English

AB Two novel dextran surfactants, N-n-hexyldextran aldonamide (diblock AB type) and N,N'-hexamethylenebis(dextran aldonamide) (triblock ABA type), which were composed of hydrophilic dextran oligosaccharide (Mw = 1600) and hydrophobic hexamethylene, were synthesized and characterized by GPC, FTIR, and ¹H NMR. The dextran surfactants were prepd. by the selective oxidn. and **lactonization** of the reducing end groups of dextran oligosaccharide, followed by the aminolysis with hexylamine or 1,6-hexanediamine. The intermediate lactones reacted selectively with amines to form the amide linkages, obviating the need for protecting the hydroxyl groups in the dextran. To optimize the reaction conditions and purifn. methods, model compds. were synthesized from D-maltose monohydrate. An ion-exchange chromatog. method was developed to purify the dextran surfactants, based on the fact that the dextran surfactants are nonionic while the impurities are ionic. In addn. to linear diblock and triblock **polysaccharide** surfactants with different block chain lengths, the synthetic approach described in this report also provides a practicable route for the prepn. of synthetic approach described in this report also provides a practicable route for the prepn. of starlike and comblike **polysaccharide** surfactants.

L37 ANSWER 10 OF 15 HCAPLUS COPYRIGHT 2001 ACS

AN 1965:463445 HCAPLUS

DN 63:63445

OREF 63:11681d-g

TI .alpha.-D(1 .fwdarw. 4)-**Polysaccharides** of D-glucuronic acid and D-glucose. VIII. **Lactonization** of the .alpha.-D-(1 .fwdarw. 4)-linked disaccharides containing D-glucuronic acid residues

AU Hirasaka, Yoshinobu; Matsunaga, Isao

CS Chugai Pharm. Co., Tokyo

SO Chem. Pharm. Bull. (Tokyo) (1965), 13(6), 672-6

DT Journal

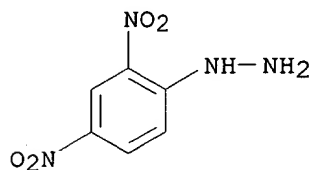
LA English

AB cf. CA 62, 14779a. When aq. solns. of I, II, and III were stirred at room temp. with a cation exchange resin, IV and V were formed. IV and V were converted to II and III by neutralization. IV and V had higher Rf values than II and III and were sepd. from them by chromatography on cellulose columns (eluted with EtOAcAcOH-water 3:1:1, 5 g. cellulose used per 500 mg. sugar). II-acetate (VI) and III-acetate (VII) were treated in CHCl₃ with SnCl₄ (Fry, CA 50, 4792e) to give the lactones VIII (50% yield, m. 80-5.degree. [.alpha.]_D 48.3 (c = 5.46, CHCl₃) .nu._{max}. 1814, 1750 cm.⁻¹) and IX (purified by chromatography on silica with tolueneacetone-alc. 3:1:1) which were identical with IV-acetate and V-acetate, resp. IV and V were treated with Me iodide and Ag₂O to give methyl derivs. which were hydrolyzed with acid to give 2,3-di-O-methyl-D-glucuronic acid (X) and 2,3,4,6-tetra-O-methyl-D-glucose from IV and X and 2,3,4-tetra-O-methyl-D-glucuronic acid from V, confirming the position of the lactone ring.

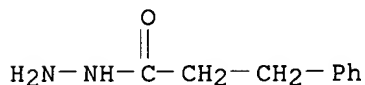
L18 ANSWER 1 OF 11 HCAPLUS COPYRIGHT 2001 ACS
 AN 1999:761856 HCAPLUS
 DN 132:124411
 TI Synthesis of substituted hydrazides of **carboxymethyl** dextran
 AU Il'ina, T. Yu.; Ponomarenko, M. N.; Iozep, A. A.
 CS S.-Peterb. Gos. Khim.-Farm. Akad., St. Petersburg, Russia
 SO Zh. Prikl. Khim. (S.-Peterburg) (1999), 72(6), 985-990
 CODEN: ZPKHAB; ISSN: 0044-4618
 PB Nauka
 DT Journal
 LA Russian
 AB Activity of **carboxymethyl** dextran its Et ester, **lactone**, and azide is studied in its reactions with alkyl-, aryl-, and acylhydrazines.
 IT 60-34-4, Methylhydrazine 119-26-6, 2,4-Dinitrophenylhydrazine 3538-68-9, 3-Phenylpropanoylhydrazine
 RL: RCT (Reactant)
 (carboxymethyl dextran Et ester acylation of)
 RN 60-34-4 HCAPLUS
 CN Hydrazine, methyl- (6CI, 8CI, 9CI) (CA INDEX NAME)



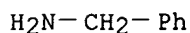
RN 119-26-6 HCAPLUS
 CN Hydrazine, (2,4-dinitrophenyl)- (6CI, 8CI, 9CI) (CA INDEX NAME)



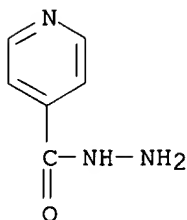
RN 3538-68-9 HCAPLUS
 CN Benzenepropanoic acid, hydrazide (9CI) (CA INDEX NAME)



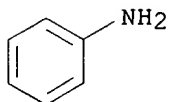
IT 100-46-9, Benzylamine, reactions
 RL: RCT (Reactant)
 (reactivity of **carboxymethyl** dextran Et ester in reaction with)
 RN 100-46-9 HCAPLUS
 CN Benzenemethanamine (9CI) (CA INDEX NAME)



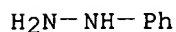
IT 54-85-3, Isonicotinoylhydrazine 62-53-3, Benzenamine, reactions 100-63-0, Phenylhydrazine 103-67-3 456-06-4, p-Fluorobenzoylhydrazide 553-53-7, Nicotinoylhydrazine 613-94-5, Benzoylhydrazine 636-97-5, p-Nitrobenzoylhydrazide 936-02-7, Salicylhydrazide 1452-63-7, Picolinoylhydrazine 3290-99-1, Anisic acid hydrazide 3619-22-5, 4-Methylbenzoylhydrazine 5818-06-4, m-Hydroxybenzoylhydrazide 9044-05-7, Carboxymethyl dextran 26409-12-1 39115-96-3, 3-Bromobenzoylhydrazine 53125-24-9, Carboxymethyldextran azide 154452-55-8, Carboxymethyl dextran ethyl ester 256374-92-2
 RL: RCT (Reactant)
 (synthesis of substituted hydrazides of carboxymethyl dextran)
 RN 54-85-3 HCAPLUS
 CN 4-Pyridinecarboxylic acid, hydrazide (9CI) (CA INDEX NAME)



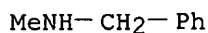
RN 62-53-3 HCAPLUS
 CN Benzenamine (9CI) (CA INDEX NAME)



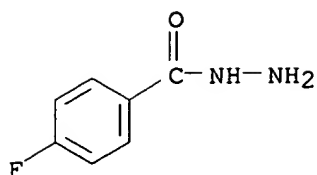
RN 100-63-0 HCAPLUS
 CN Hydrazine, phenyl- (8CI, 9CI) (CA INDEX NAME)



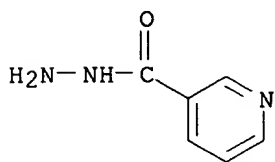
RN 103-67-3 HCAPLUS
 CN Benzenemethanamine, N-methyl- (9CI) (CA INDEX NAME)



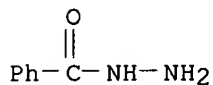
RN 456-06-4 HCAPLUS
 CN Benzoic acid, 4-fluoro-, hydrazide (9CI) (CA INDEX NAME)



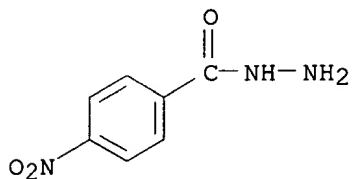
RN 553-53-7 HCAPLUS
CN 3-Pyridinecarboxylic acid, hydrazide (9CI) (CA INDEX NAME)



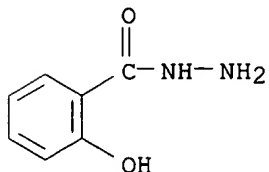
RN 613-94-5 HCAPLUS
CN Benzoic acid, hydrazide (6CI, 8CI, 9CI) (CA INDEX NAME)



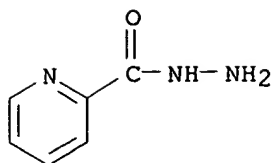
RN 636-97-5 HCAPLUS
CN Benzoic acid, 4-nitro-, hydrazide (9CI) (CA INDEX NAME)



RN 936-02-7 HCAPLUS
CN Benzoic acid, 2-hydroxy-, hydrazide (9CI) (CA INDEX NAME)

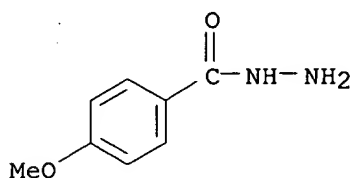


RN 1452-63-7 HCAPLUS
CN 2-Pyridinecarboxylic acid, hydrazide (9CI) (CA INDEX NAME)



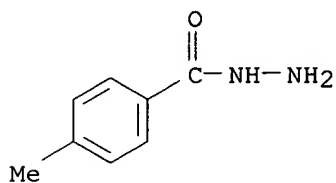
RN 3290-99-1 HCAPLUS

CN Benzoic acid, 4-methoxy-, hydrazide (9CI) (CA INDEX NAME)



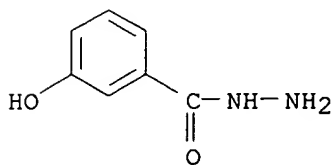
RN 3619-22-5 HCAPLUS

CN Benzoic acid, 4-methyl-, hydrazide (9CI) (CA INDEX NAME)



RN 5818-06-4 HCAPLUS

CN Benzoic acid, 3-hydroxy-, hydrazide (9CI) (CA INDEX NAME)



RN 9044-05-7 HCAPLUS

CN Dextran, carboxymethyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 9004-54-0

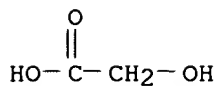
CMF Unspecified

CCI PMS, MAN

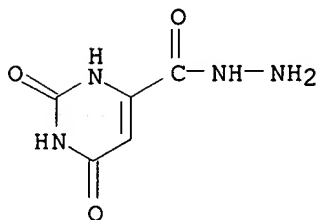
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

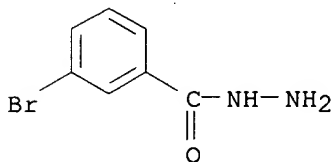
CRN 79-14-1
CMF C2 H4 O3



RN 26409-12-1 HCAPLUS
CN 4-Pyrimidinecarboxylic acid, 1,2,3,6-tetrahydro-2,6-dioxo-, hydrazide
(9CI) (CA INDEX NAME)



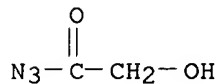
RN 39115-96-3 HCAPLUS
CN Benzoic acid, 3-bromo-, hydrazide (9CI) (CA INDEX NAME)



RN 53125-24-9 HCAPLUS
CN Dextran, 2-azido-2-oxoethyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 167613-56-1
CMF C2 H3 N3 O2



CM 2

CRN 9004-54-0
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 154452-55-8 HCAPLUS

CN Dextran, 2-ethoxy-2-oxoethyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 9004-54-0

CMF Unspecified

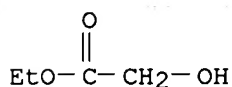
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 623-50-7

CMF C4 H8 O3



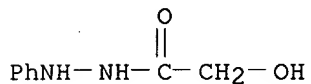
RN 256374-92-2 HCAPLUS

CN Dextran, 2-ethoxy-2-oxoethyl 2-oxo-2-(2-phenylhydrazino)ethyl ether (9CI)
(CA INDEX NAME)

CM 1

CRN 73514-26-8

CMF C8 H10 N2 O2



CM 2

CRN 9004-54-0

CMF Unspecified

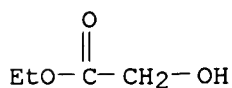
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

CRN 623-50-7

CMF C4 H8 O3



IT 256374-77-3P 256374-79-5P 256374-81-9P
 256374-83-1P 256374-85-3P 256374-87-5P
 256374-89-7P 256374-91-1P 256374-94-4P
 256374-96-6P 256374-98-8P 256375-00-5P
 256375-02-7P 256375-03-8P 256375-04-9P
 256375-06-1P 256375-07-2P 256375-08-3P
 256375-09-4P 256375-10-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (synthesis of substituted hydrazides of carboxymethyl
 dextran)

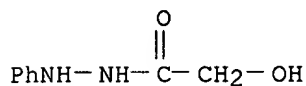
RN 256374-77-3 HCAPLUS

CN Dextran, carboxymethyl 2-oxo-2-(2-phenylhydrazino)ethyl ether, sodium salt
 (9CI) (CA INDEX NAME)

CM 1

CRN 73514-26-8

CMF C8 H10 N2 O2



CM 2

CRN 9004-54-0

CMF Unspecified

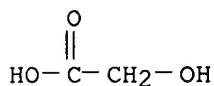
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

CRN 79-14-1

CMF C2 H4 O3



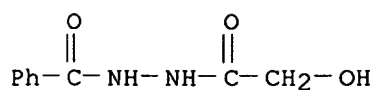
RN 256374-79-5 HCAPLUS

CN Dextran, 2-(2-benzoylhydrazino)-2-oxoethyl carboxymethyl ether, sodium
 salt (9CI) (CA INDEX NAME)

CM 1

CRN 256374-78-4

CMF C9 H10 N2 O3



CM 2

CRN 9004-54-0

CMF Unspecified

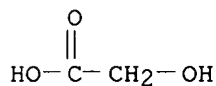
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

CRN 79-14-1

CMF C2 H4 O3



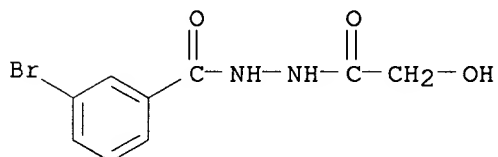
RN 256374-81-9 HCAPLUS

CN Dextran, 2-[2-(3-bromobenzoyl)hydrazino]-2-oxoethyl carboxymethyl ether,
sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 256374-80-8

CMF C9 H9 Br N2 O3



CM 2

CRN 9004-54-0

CMF Unspecified

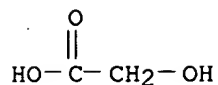
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

CRN 79-14-1

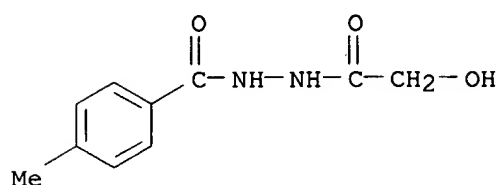
CMF C2 H4 O3



RN 256374-83-1 HCAPLUS
 CN Dextran, carboxymethyl 2-[2-(4-methylbenzoyl)hydrazino]-2-oxoethyl ether,
 sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 256374-82-0
 CMF C10 H12 N2 O3



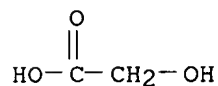
CM 2

CRN 9004-54-0
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

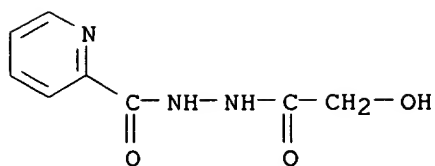
CRN 79-14-1
 CMF C2 H4 O3



RN 256374-85-3 HCAPLUS
 CN Dextran, carboxymethyl 2-oxo-2-[2-(2-pyridinylcarbonyl)hydrazino]ethyl
 ether, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 256374-84-2
 CMF C8 H9 N3 O3



CM 2

CRN 9004-54-0

CMF Unspecified

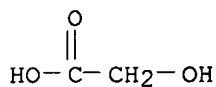
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

CRN 79-14-1

CMF C2 H4 O3



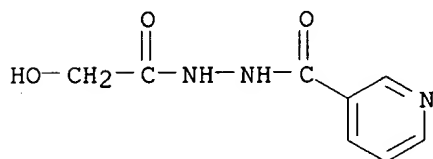
RN 256374-87-5 HCAPLUS

CN Dextran, carboxymethyl 2-oxo-2-[2-(3-pyridinylcarbonyl)hydrazino]ethyl ether, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 256374-86-4

CMF C8 H9 N3 O3



CM 2

CRN 9004-54-0

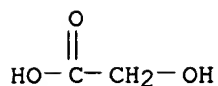
CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

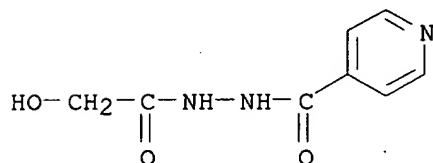
CRN 79-14-1
CMF C2 H4 O3



RN 256374-89-7 HCAPLUS
CN Dextran, carboxymethyl 2-oxo-2-[2-(4-pyridinylcarbonyl)hydrazino]ethyl ether, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 256374-88-6
CMF C8 H9 N3 O3



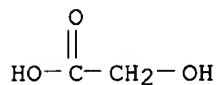
CM 2

CRN 9004-54-0
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

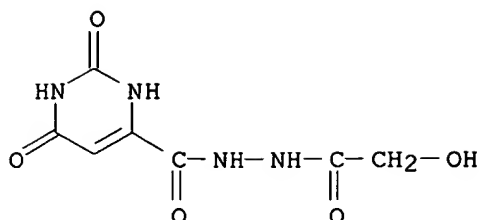
CRN 79-14-1
CMF C2 H4 O3



RN 256374-91-1 HCAPLUS
CN Dextran, carboxymethyl 2-oxo-2-[2-[(1,2,3,6-tetrahydro-2,6-dioxo-4-pyrimidinyl)carbonyl]hydrazino]ethyl ether, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 256374-90-0
CMF C7 H8 N4 O5



CM 2

CRN 9004-54-0

CMF Unspecified

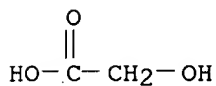
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

CRN 79-14-1

CMF C2 H4 O3



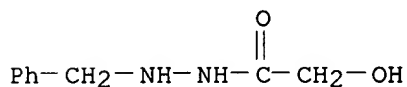
RN 256374-94-4 HCAPLUS

CN Dextran, 2-ethoxy-2-oxoethyl 2-oxo-2-[2-(phenylmethyl)hydrazino]ethyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 256374-93-3

CMF C9 H12 N2 O2



CM 2

CRN 9004-54-0

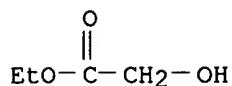
CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

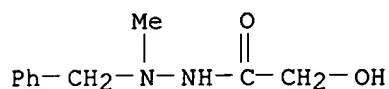
CRN 623-50-7
CMF C4 H8 O3



RN 256374-96-6 HCAPLUS
CN Dextran, 2-ethoxy-2-oxoethyl 2-[2-methyl-2-(phenylmethyl)hydrazino]-2-oxoethyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 256374-95-5
CMF C10 H14 N2 O2



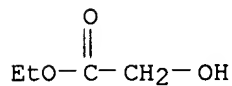
CM 2

CRN 9004-54-0
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

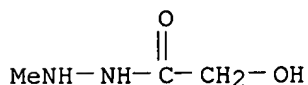
CRN 623-50-7
CMF C4 H8 O3

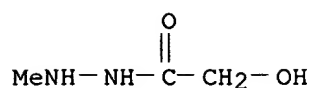


RN 256374-98-8 HCAPLUS
CN Dextran, 2-ethoxy-2-oxoethyl 2-(2-methylhydrazino)-2-oxoethyl ether (9CI)
(CA INDEX NAME)

CM 1

CRN 256374-97-7
CMF C3 H8 N2 O2





CM 2

CRN 9004-54-0

CMF Unspecified

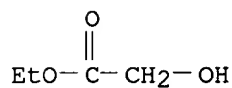
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

CRN 623-50-7

CMF C4 H8 O3



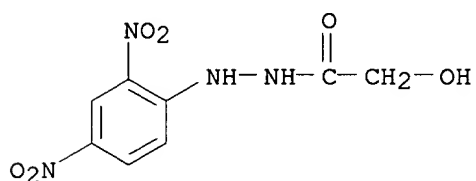
RN 256375-00-5 HCAPLUS

CN Dextran, 2-[2-(2,4-dinitrophenyl)hydrazino]-2-oxoethyl 2-ethoxy-2-oxoethyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 256374-99-9

CMF C8 H8 N4 O6



CM 2

CRN 9004-54-0

CMF Unspecified

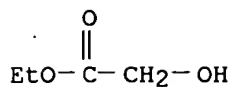
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

CRN 623-50-7

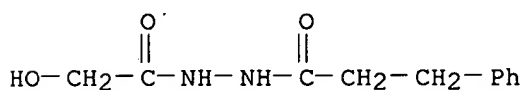
CMF C4 H8 O3



RN 256375-02-7 HCAPLUS
 CN Dextran, 2-ethoxy-2-oxoethyl 2-oxo-2-[2-(1-oxo-3-phenylpropyl)hydrazino]ethyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 256375-01-6
 CMF C11 H14 N2 O3



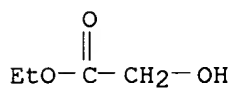
CM 2

CRN 9004-54-0
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

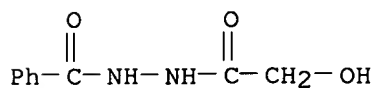
CRN 623-50-7
 CMF C4 H8 O3



RN 256375-03-8 HCAPLUS
 CN Dextran, 2-(2-benzoylhydrazino)-2-oxoethyl 2-ethoxy-2-oxoethyl ether (9CI)
 (CA INDEX NAME)

CM 1

CRN 256374-78-4
 CMF C9 H10 N2 O3



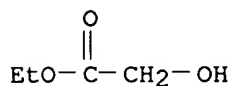
CM 2

CRN 9004-54-0
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

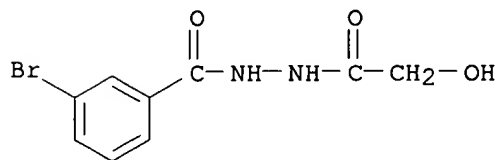
CRN 623-50-7
CMF C4 H8 O3



RN 256375-04-9 HCAPLUS
CN Dextran, 2-[2-(3-bromobenzoyl)hydrazino]-2-oxoethyl 2-ethoxy-2-oxoethyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 256374-80-8
CMF C9 H9 Br N2 O3



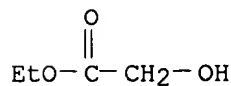
CM 2

CRN 9004-54-0
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

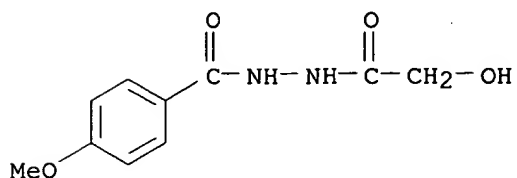
CRN 623-50-7
CMF C4 H8 O3



RN 256375-06-1 HCAPLUS
CN Dextran, 2-ethoxy-2-oxoethyl 2-[2-(4-methoxybenzoyl)hydrazino]-2-oxoethyl
ether (9CI) (CA INDEX NAME)

CM 1

CRN 256375-05-0
CMF C10 H12 N2 O4



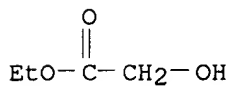
CM 2

CRN 9004-54-0
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

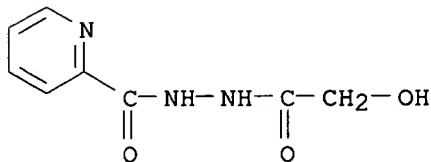
CRN 623-50-7
CMF C4 H8 O3



RN 256375-07-2 HCAPLUS
CN Dextran, 2-ethoxy-2-oxoethyl 2-oxo-2-[2-(2-pyridinylcarbonyl)hydrazino]ethyl
ether (9CI) (CA INDEX NAME)

CM 1

CRN 256374-84-2
CMF C8 H9 N3 O3



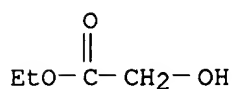
CM 2

CRN 9004-54-0
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

CRN 623-50-7
CMF C4 H8 O3

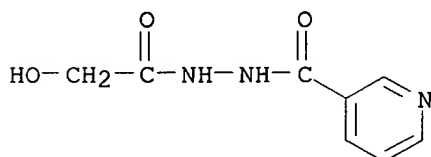


RN 256375-08-3 HCAPLUS

CN Dextran, 2-ethoxy-2-oxoethyl 2-oxo-2-[2-(3-pyridinylcarbonyl)hydrazino]ethyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 256374-86-4
CMF C8 H9 N3 O3



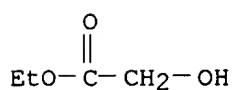
CM 2

CRN 9004-54-0
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

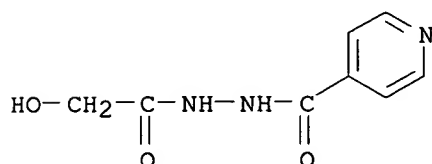
CRN 623-50-7
CMF C4 H8 O3



RN 256375-09-4 HCAPLUS
 CN Dextran, 2-ethoxy-2-oxoethyl 2-oxo-2-[2-(4-pyridinylcarbonyl)hydrazino]ethyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 256374-88-6
 CMF C8 H9 N3 O3



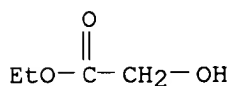
CM 2

CRN 9004-54-0
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

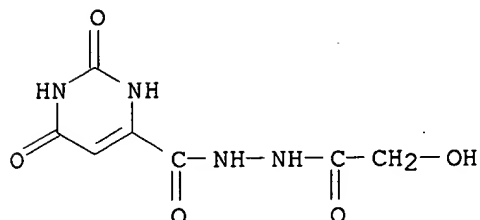
CRN 623-50-7
 CMF C4 H8 O3



RN 256375-10-7 HCAPLUS
 CN Dextran, 2-ethoxy-2-oxoethyl 2-oxo-2-[2-[(1,2,3,6-tetrahydro-2,6-dioxo-4-pyrimidinyl)carbonyl]hydrazino]ethyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 256374-90-0
 CMF C7 H8 N4 O5



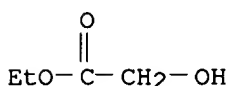
CM 2

CRN 9004-54-0
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

CRN 623-50-7
 CMF C4 H8 O3



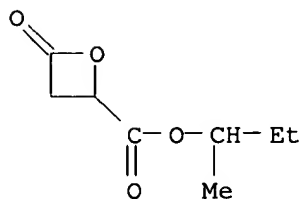
L18 ANSWER 2 OF 11 HCAPLUS COPYRIGHT 2001 ACS
 AN 1999:622788 HCAPLUS
 DN 131:356030
 TI Functionalized and degradable polymers of malic acid stimulate bone repair
 AU Jeanbat-Mimaud, Viviane; Barbaud, Christel; Caruelle, Jean-Pierre;
 Barritault, Denis; Cammas-Marion, Sandrine; Langlois, Valerie; Guerin,
 Philippe
 CS Laboratoire de recherche sur la croissance cellulaire, la reparation et la
 regeneration tissulaire, Laboratoire de recherche sur la croissance
 cellulaire, la reparation et la regeneration tissulaire, UPRESA 7053
 CNRS-universite Paris-XII, Creteil, 94010, Fr.
 SO C. R. Acad. Sci., Ser. IIc: Chim. (1999), 2(7-8), 393-401
 CODEN: CASCEN; ISSN: 1387-1609
 PB Editions Scientifiques et Medicales Elsevier
 DT Journal
 LA English
 AB A water sol. and hydrolyzable polyester derived from malic acid has been
 synthesized by copolymn. of three different **malolactonic** acid
 esters. Functional pendant groups have been selected to interact with and
 protect heparin binding growth factors (HBGF). Three .beta.-substituted
 .beta.-**lactones** have been synthesized by using aspartic acid as
 a chiral precursor and benzyl, allyl and Bu alcs. in the formation of the
 ester pendant groups. The terpolymer has been subjected to three
 consecutive different chem. modifications. This modified terpolymer, able
 to induce new bone formation in an in vivo model, has the same property as
carboxymethyl benzylamide sulfonate **dextrans** (CMDBS).
 Consequently, the distribution of the lateral functional groups is more
 essential than the glucidic nature of the backbone to acquire biol.
 efficiency.
 IT 250375-83-8DP, epoxidized and sulfated
 RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic
 preparation); THU (Therapeutic use); BIOL (Biological study); **PREP**
(Preparation); USES (Uses)
 (functionalized and degradable polymers of malic acid stimulate bone
 repair)
 RN 250375-83-8 HCAPLUS

CN 2-Oxetanecarboxylic acid, 4-oxo-, 1-methylpropyl ester, polymer with phenylmethyl 4-oxo-2-oxetanecarboxylate and 2-propenyl 4-oxo-2-oxetanecarboxylate (9CI) (CA INDEX NAME)

CM 1

CRN 250375-82-7

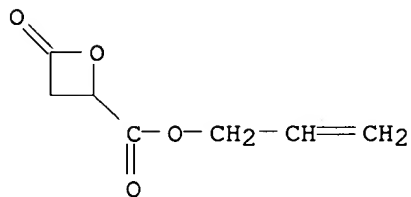
CMF C8 H12 O4



CM 2

CRN 182230-28-0

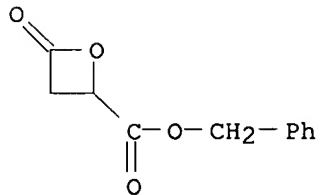
CMF C7 H8 O4



CM 3

CRN 76652-44-3

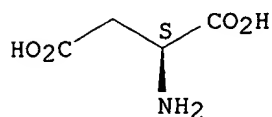
CMF C11 H10 O4



IT 56-84-8, Aspartic acid, reactions 923-06-8, Butanedioic acid, bromo-
 RL: RCT (Reactant)
 (functionalized and degradable polymers of malic acid stimulate bone repair)
 RN 56-84-8 HCAPLUS

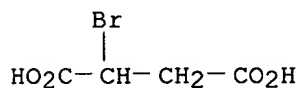
CN L-Aspartic acid (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 923-06-8 HCAPLUS

CN Butanedioic acid, bromo- (9CI) (CA INDEX NAME)



IT 5470-44-0P, Bromosuccinic anhydride 76652-44-3P, Benzyl malolactonate 88850-36-6P 182230-28-0P, 2-Oxetanecarboxylic acid, 4-oxo-, 2-propenyl ester 197014-62-3P 250375-82-7P 250375-83-8P 250375-87-2P 250375-90-7P 250375-98-5P 250376-01-3P

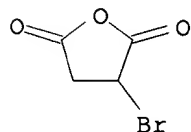
RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation)

(functionalized and degradable polymers of malic acid stimulate bone repair)

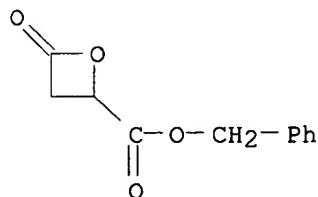
RN 5470-44-0 HCAPLUS

CN 2,5-Furandione, 3-bromodihydro- (9CI) (CA INDEX NAME)



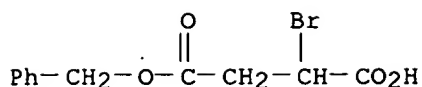
RN 76652-44-3 HCAPLUS

CN 2-Oxetanecarboxylic acid, 4-oxo-, phenylmethyl ester (9CI) (CA INDEX NAME)



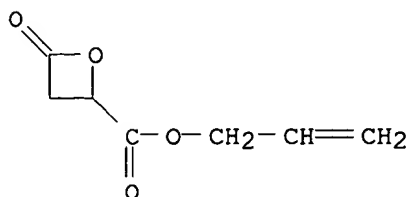
RN 88850-36-6 HCAPLUS

CN Butanedioic acid, bromo-, 4-(phenylmethyl) ester (9CI) (CA INDEX NAME)



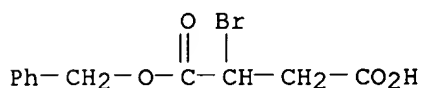
RN 182230-28-0 HCAPLUS

CN 2-Oxetanecarboxylic acid, 4-oxo-, 2-propenyl ester (9CI) (CA INDEX NAME)



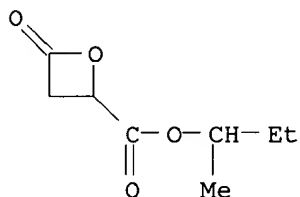
RN 197014-62-3 HCAPLUS

CN Butanedioic acid, bromo-, 1-(phenylmethyl) ester (9CI) (CA INDEX NAME)



RN 250375-82-7 HCAPLUS

CN 2-Oxetanecarboxylic acid, 4-oxo-, 1-methylpropyl ester (9CI) (CA INDEX NAME)



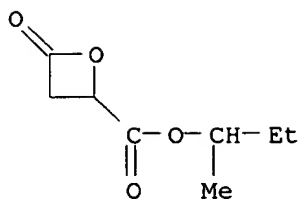
RN 250375-83-8 HCAPLUS

CN 2-Oxetanecarboxylic acid, 4-oxo-, 1-methylpropyl ester, polymer with phenylmethyl 4-oxo-2-oxetanecarboxylate and 2-propenyl 4-oxo-2-oxetanecarboxylate (9CI) (CA INDEX NAME)

CM 1

CRN 250375-82-7

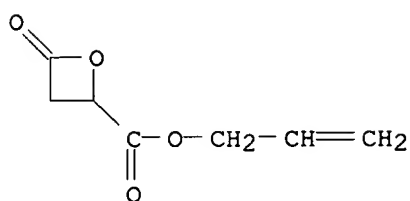
CMF C8 H12 O4



CM 2

CRN 182230-28-0

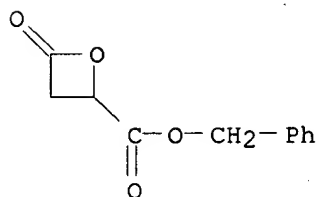
CMF C7 H8 O4



CM 3

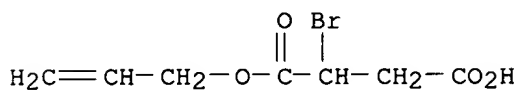
CRN 76652-44-3

CMF C11 H10 O4



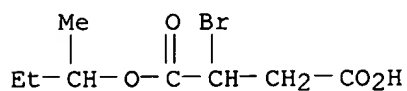
RN 250375-87-2 HCAPLUS

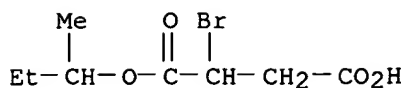
CN Butanedioic acid, bromo-, 1-(2-propenyl) ester (9CI) (CA INDEX NAME)



RN 250375-90-7 HCAPLUS

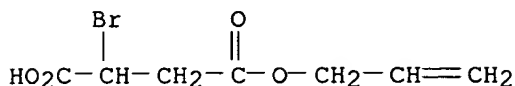
CN Butanedioic acid, bromo-, 1-(1-methylpropyl) ester (9CI) (CA INDEX NAME)





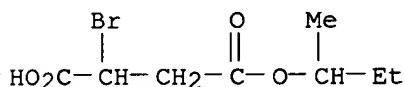
RN 250375-98-5 HCAPLUS

CN Butanedioic acid, bromo-, 4-(2-propenyl) ester (9CI) (CA INDEX NAME)



RN 250376-01-3 HCAPLUS

CN Butanedioic acid, bromo-, 4-(1-methylpropyl) ester (9CI) (CA INDEX NAME)



RE.CNT 26

RE

- (1) Blanquaert, F; Bone 1995, V17(6), P499 HCAPLUS
 - (3) Boutault, K; Macromolecules 1995, V28, P3516 HCAPLUS
 - (4) Braud, C; ACS Polymers Preprints 1988, V29(1), P600 HCAPLUS
 - (5) Cammas, S; Biodegradable Plastics and Polymers 1994, P534 HCAPLUS
 - (6) Cammas, S; Polym Bull 1994, V33, P149 HCAPLUS
- ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 3 OF 11 HCAPLUS COPYRIGHT 2001 ACS

AN 1995:177613 HCAPLUS

DN 122:187929

TI Synthesis of substituted **carboxymethyldextran** amides

AU Iozep, A. A.; Il'ina, T. Yu.; Passet, B. V.

CS St. Petersburg. Khim.-Farm. Inst., St. Petersburg, Russia

SO Zh. Prikl. Khim. (S.-Peterburg) (1994), 67(3), 470-4

CODEN: ZPKHAB; ISSN: 0044-4618

DT Journal

LA Russian

AB Reaction of benzylamine with **carboxymethyldextran** esters and **lactones** leads to **carboxymethyldextran** amides. The conversion of the ester groups to amide groups can reach 100%.

IT **9004-54-0DP**, Dextran, **carboxymethylated**, amides, sodium salts

RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. of)

RN 9004-54-0 HCAPLUS

CN Dextran (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **100-46-9D**, Benzylamine, reaction products with **carboxymethyldextran** esters and **lactones**

9004-54-0D, Dextran, **carboxymethylated**, alkyl esters
RL: RCT (Reactant)

(prepn. of **carboxymethyldextran** amides)
RN 100-46-9 HCAPLUS
CN Benzenemethanamine (9CI) (CA INDEX NAME)

H₂N-CH₂-Ph

RN 9004-54-0 HCAPLUS
CN Dextran (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L18 ANSWER 4 OF 11 HCAPLUS COPYRIGHT 2001 ACS

AN 1995:177612 HCAPLUS

DN 122:161109

TI **Carboxymethyldextran lactones**

AU Iozep, A. A.; Il'ina, T. Yu.; Passet, B. V.

CS St. Petersburg. Khim.-Farm. Inst., St. Petersburg, Russia

SO Zh. Prikl. Khim. (S.-Peterburg) (1994), 67(3), 467-9

CODEN: ZPKHAB; ISSN: 0044-4618

DT Journal

LA Russian

AB **Carboxymethyldextran** can be lactonized by heating the dry powder or in an inert org. solvent under milder conditions. The degree of lactonization depends on the degree of **carboxymethylation**, the org. solvent, the temp., and the reaction time and amts. to 6-33%..

IT **9004-54-0DP, Dextran, carboxymethylated, lactones**

RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. of)

RN 9004-54-0 HCAPLUS

CN Dextran (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L18 ANSWER 5 OF 11 HCAPLUS COPYRIGHT 2001 ACS

AN 1994:86219 HCAPLUS

DN 120:86219

TI **Carboxymethyl dextran lactone: A**

preactivated polymer for amine conjugations

AU Heindel, Ned D.; Kauffman, Michael A.; Akyea, Eric K.; Engel, Stephanie A.; Frey, Michael F.; Lacey, C. Jeffrey; Egolf, Roger A.

CS Inst. Health Sci., Lehigh Univ., Bethlehem, PA, 18015, USA

SO Bioconjugate Chem. (1994), 5(1), 98-100

CODEN: BCCHES; ISSN: 1043-1802

DT Journal

LA English

AB The linking of amino haptens to **carboxymethyl dextran** (CMD) requires carboxyl activation, for example, via carbodiimides. The authors have discovered that substantial N-acylurea, derived from these carbodiimides, can be trapped on the CMD backbone. As an alternative, CMD can be conveniently lactonized by heating in inert solvents, and this **carboxymethyl dextran lactone** (CDL) can be employed directly for amine conjugation.

IT **9044-05-7DP, Carboxymethyldextran, methoxybenzylamine**

derivs.

RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. and amine conjugation of, as drug carrier)

RN 9044-05-7 HCAPLUS

CN Dextran, carboxymethyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 9004-54-0

CMF Unspecified

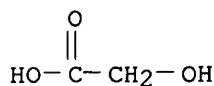
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 79-14-1

CMF C2 H4 O3



IT 152287-12-2P

RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. of)

RN 152287-12-2 HCAPLUS

CN Dextran, 2-(carboxymethyl) ether, .delta.-lactone (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 152287-12-2DP, methoxybenzylamine derivs.

RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. of, as drug carrier)

RN 152287-12-2 HCAPLUS

CN Dextran, 2-(carboxymethyl) ether, .delta.-lactone (9CI) (CA INDEX NAME)

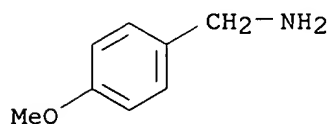
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 2393-23-9DP, 4-Methoxybenzylamine, reaction products with
carboxymethyl dextrans

RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. of, as drug carriers)

RN 2393-23-9 HCAPLUS

CN Benzenemethanamine, 4-methoxy- (9CI) (CA INDEX NAME)



L18 ANSWER 6 OF 11 HCAPLUS COPYRIGHT 2001 ACS

AN 1988:167456 HCAPLUS

DN 108:167456

TI Preparation, testing, and formulation of 7-(4-isoxazolyl)- and
 7-(4-isothiazolyl)-6-hexenoates and related lactones as anticholesteremics
 IN Maier, Roland; Woitun, Eberhard; Mueller, Peter; Bomhard, Andreas; Eisele,
 Bernhard; Grube, Helmut
 PA Thomae, Dr. Karl, G.m.b.H., Fed. Rep. Ger.
 SO Ger. Offen., 17 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3621372	A1	19880107	DE 1986-3621372	19860626
OS	MARPAT 108:167456				
AB	<p>The title compds. [I; A = CH(OH)CH₂CH(OH)CH₂CO₂R₃, hydroxypyranone moiety Q; R₁ = C1-5 alkyl, (un)substituted Ph; R₂ = C1-4 alkyl, alkenyl, heptadecyl, cyclohexyl, naphthyl, thienyl, furyl, (un)substituted Ph; R₃ = H, physiol. acceptable cation, hydrolyzable alkyl, phenylalkyl; X = O, S] and their racemates and stereoisomers were prepd. as inhibitors of hydroxymethylglutaryl-CoA reductase (HMG-CoA reductase), useful for treatment of hyperlipemia and atherosclerosis. Na (E)-7-[5-(2,4-dimethoxyphenyl)-3-methyl-4-isoxazolyl]-3,5-dihydroxy-6-heptenoate (II) was prepd. in several steps from 5-(2,4-dimethoxyphenyl)-3-methylisoxazole via the protected intermediate I [A = CH(OR₄)CH₂CH(OR₄)CH₂CO₂Me, R₁ = Me, R₂ = 2,4-(MeO)₂C₆H₃, R₄ = Me₃CSiPh₂] which was deprotected and lactonized by treatment with Bu₄N⁺F⁻ to give I [A = Q, R₁ = Me, R₂ = 2,4-(MeO)₂C₆H₃]. The latter was cleaved with aq. NaOH to give II. In rat liver preps. II gave >90% inhibition of HMG-Co A reductase at 10⁻⁵ M. Tablets were prepd. each contg. II 150.0, lactose 224.5, cornstarch 100.0, microcryst. cellulose 80.0, Na carboxymethylcellulose 4.0, and Mg stearate 1.5 mg.</p>				
IT	<p>37250-24-1, Hydroxymethylglutaryl-coenzyme A reductase RL: USES (Uses) (inhibitors, isoxazolylheptenoates)</p>				
RN	37250-24-1 HCAPLUS				
CN	Reductase, hydroxymethylglutaryl coenzyme A (9CI) (CA INDEX NAME)				

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

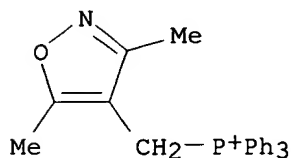
IT 28241-32-9P 52605-61-5P 113826-87-2P
 113841-32-0P 113841-33-1P 113841-34-2P
 113841-35-3P 113841-36-4P 113841-37-5P
 113841-38-6P 113841-39-7P 113841-40-0P
 113841-41-1P 113841-42-2P 113841-43-3P
 113841-44-4P 113841-45-5P 113841-46-6P
 113841-47-7P 113841-48-8P 113841-49-9P
 113841-50-2P 113841-51-3P 113841-52-4P
 113841-53-5P 113841-59-1P 113841-60-4P
 113841-61-5P 113841-62-6P 113841-63-7P
 113841-64-8P 113841-65-9P 113841-67-1P
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 113841-71-7P 113841-72-8P 113841-73-9P
 113841-74-0P 113841-75-1P 113841-76-2P
 113841-77-3P 113841-78-4P 113841-79-5P
 113841-80-8P 113879-76-8P 113879-77-9P
 113879-78-0P 113879-79-1P 113879-80-4P
 113879-81-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); **PREP**

(Preparation)

(prepn. and reaction of, in prepn. of hypolipemic)

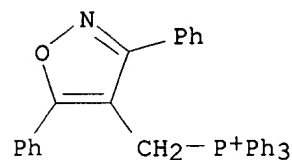
RN 28241-32-9 HCAPLUS

CN Phosphonium, [(3,5-dimethyl-4-isoxazolyl)methyl]triphenyl-, chloride (8CI, 9CI) (CA INDEX NAME)

● Cl⁻

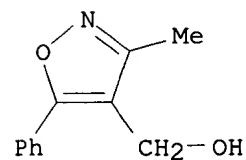
RN 52605-61-5 HCAPLUS

CN Phosphonium, [(3,5-diphenyl-4-isoxazolyl)methyl]triphenyl-, bromide (9CI) (CA INDEX NAME)

● Br⁻

RN 113826-87-2 HCAPLUS

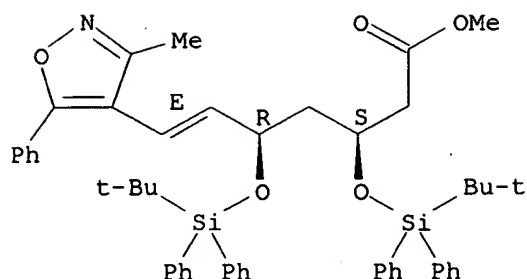
CN 4-Isioxazolemethanol, 3-methyl-5-phenyl- (9CI) (CA INDEX NAME)



RN 113841-32-0 HCAPLUS

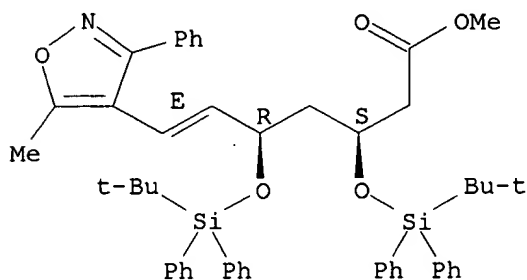
CN 6-Heptenoic acid, 3,5-bis[[(1,1-dimethylethyl)diphenylsilyl]oxy]-7-(3-methyl-5-phenyl-4-isoxazolyl)-, methyl ester, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



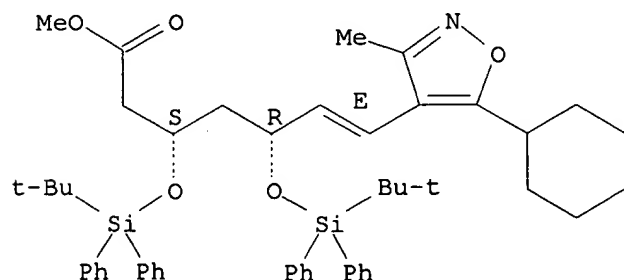
RN 113841-33-1 HCAPLUS
 CN 6-Heptenoic acid, 3,5-bis[[(1,1-dimethylethyl)diphenylsilyl]oxy]-7-(5-methyl-3-phenyl-4-isoxazolyl)-, methyl ester, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
 Double bond geometry as shown.



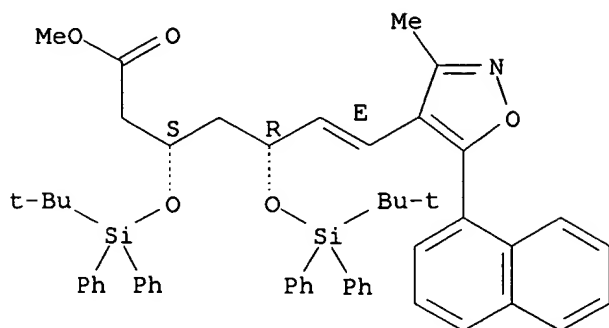
RN 113841-34-2 HCAPLUS
 CN 6-Heptenoic acid, 7-(5-cyclohexyl-3-methyl-4-isoxazolyl)-3,5-bis[[(1,1-dimethylethyl)diphenylsilyl]oxy]-, methyl ester, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
 Double bond geometry as shown.



RN 113841-35-3 HCAPLUS
 CN 6-Heptenoic acid, 3,5-bis[[(1,1-dimethylethyl)diphenylsilyl]oxy]-7-[3-methyl-5-(1-naphthalenyl)-4-isoxazolyl]-, methyl ester, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

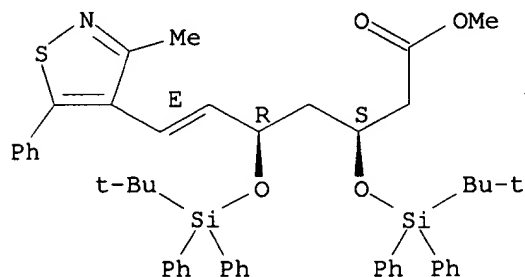
Relative stereochemistry.
Double bond geometry as shown.



RN 113841-36-4 HCAPLUS

CN 6-Heptenoic acid, 3,5-bis[[1,1-dimethylethyl)diphenylsilyl]oxy]-7-(3-methyl-5-phenyl-4-isothiazolyl)-, methyl ester, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

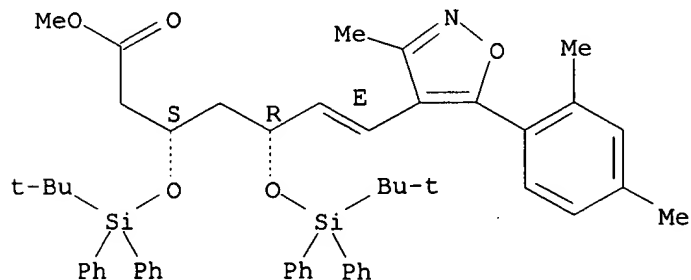
Relative stereochemistry.
Double bond geometry as shown.



RN 113841-37-5 HCAPLUS

CN 6-Heptenoic acid, 3,5-bis[[1,1-dimethylethyl)diphenylsilyl]oxy]-7-[5-(2,4-dimethylphenyl)-3-methyl-4-isoxazolyl]-, methyl ester, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.

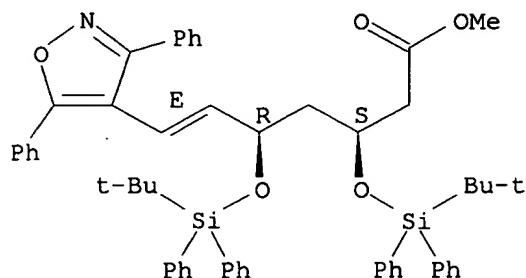


RN 113841-38-6 HCAPLUS

CN 6-Heptenoic acid, 3,5-bis[[(1,1-dimethylethyl)diphenylsilyl]oxy]-7-(3,5-diphenyl-4-isoxazolyl)-, methyl ester, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

Double bond geometry as shown.

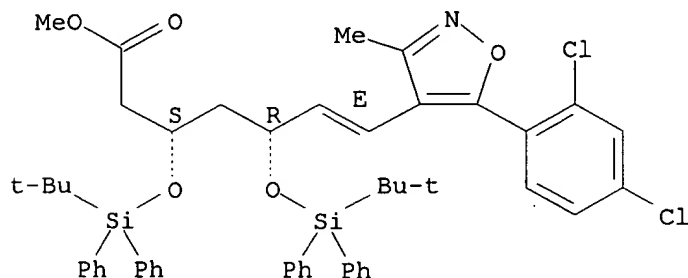


RN 113841-39-7 HCAPLUS

CN 6-Heptenoic acid, 7-[5-(2,4-dichlorophenyl)-3-methyl-4-isoxazolyl]-3,5-bis[[(1,1-dimethylethyl)diphenylsilyl]oxy]-, methyl ester, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

Double bond geometry as shown.

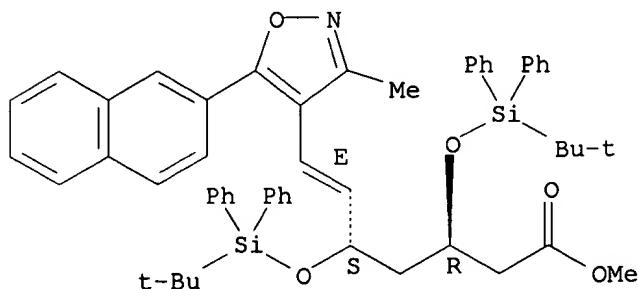


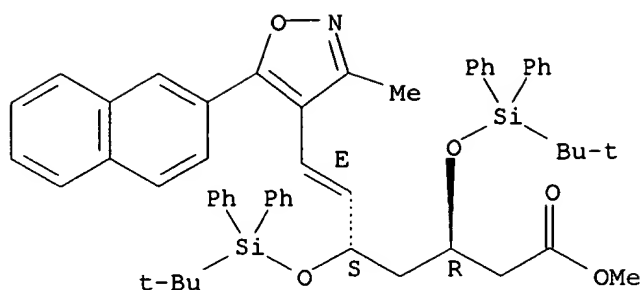
RN 113841-40-0 HCAPLUS

CN 6-Heptenoic acid, 3,5-bis[[(1,1-dimethylethyl)diphenylsilyl]oxy]-7-[3-methyl-5-(2-naphthalenyl)-4-isoxazolyl]-, methyl ester, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

Double bond geometry as shown.

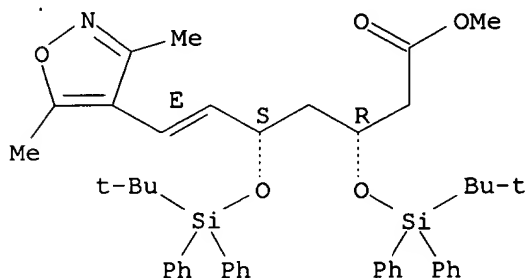




RN 113841-41-1 HCAPLUS

CN 6-Heptenoic acid, 3,5-bis[[(1,1-dimethylethyl)diphenylsilyl]oxy]-7-(3,5-dimethyl-4-isoxazolyl)-, methyl ester, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

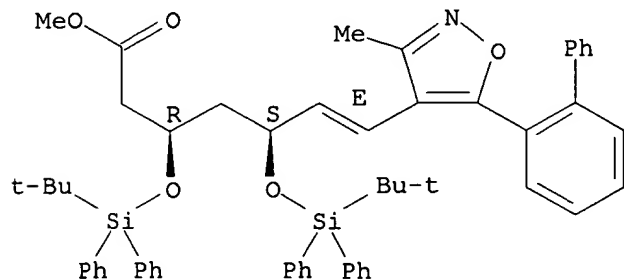
Relative stereochemistry.
Double bond geometry as shown.



RN 113841-42-2 HCAPLUS

CN 6-Heptenoic acid, 7-(5-[1,1'-biphenyl]-2-yl-3-methyl-4-isoxazolyl)-3,5-bis[[(1,1-dimethylethyl)diphenylsilyl]oxy]-, methyl ester, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.

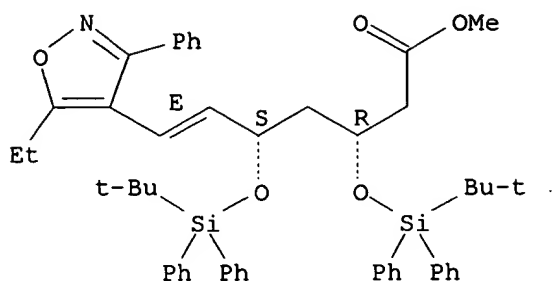


RN 113841-43-3 HCAPLUS

CN 6-Heptenoic acid, 3,5-bis[[(1,1-dimethylethyl)diphenylsilyl]oxy]-7-(5-ethyl-3-phenyl-4-isoxazolyl)-, methyl ester, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

Double bond geometry as shown.

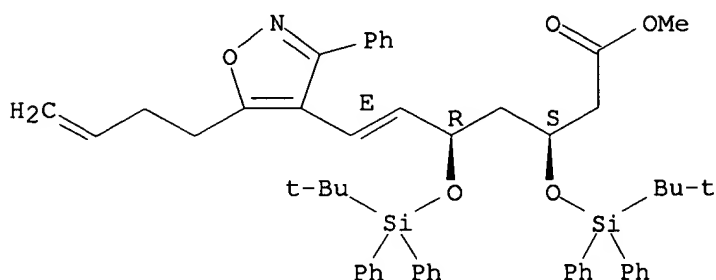


RN 113841-44-4 HCAPLUS

CN 6-Heptenoic acid, 7-[5-(3-butenyl)-3-phenyl-4-isoxazolyl]-3,5-bis[[(1,1-dimethylethyl)diphenylsilyl]oxy]-, methyl ester, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

Double bond geometry as shown.

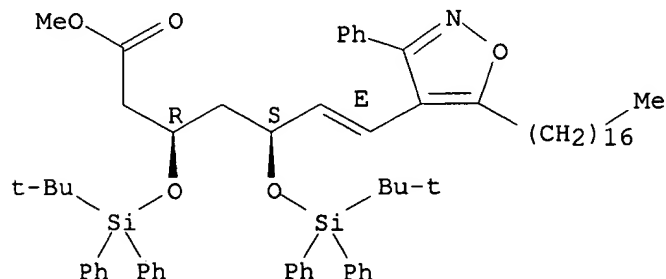


RN 113841-45-5 HCAPLUS

CN 6-Heptenoic acid, 3,5-bis[[(1,1-dimethylethyl)diphenylsilyl]oxy]-7-(5-heptadecyl-3-phenyl-4-isoxazolyl)-, methyl ester, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

Double bond geometry as shown.

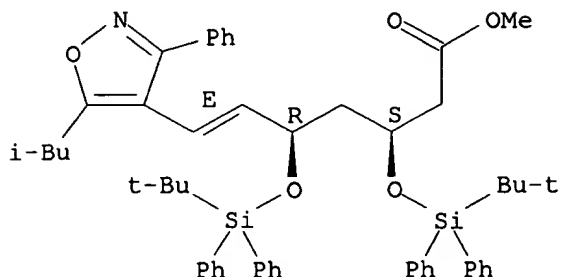


RN 113841-46-6 HCAPLUS

CN 6-Heptenoic acid, 3,5-bis[[(1,1-dimethylethyl)diphenylsilyl]oxy]-7-[5-(2-methylpropyl)-3-phenyl-4-isoxazolyl]-, methyl ester, [R*,S*-(E)]- (9CI)

(CA INDEX NAME)

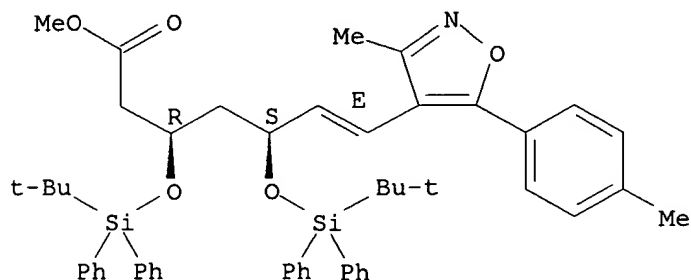
Relative stereochemistry.
Double bond geometry as shown.



RN 113841-47-7 HCAPLUS

CN 6-Heptenoic acid, 3,5-bis[[(1,1-dimethylethyl)diphenylsilyl]oxy]-7-[3-methyl-5-(4-methylphenyl)-4-isoxazolyl]-, methyl ester, [R*,S*-(E)]- (9CI)
(CA INDEX NAME)

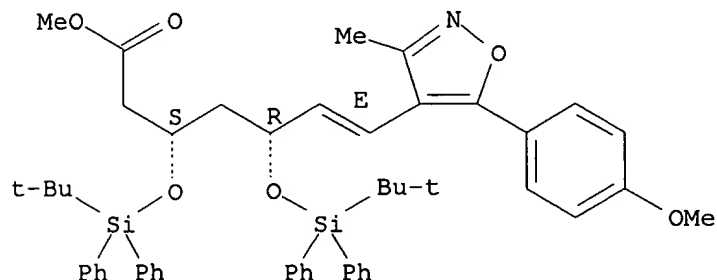
Relative stereochemistry.
Double bond geometry as shown.



RN 113841-48-8 HCAPLUS

CN 6-Heptenoic acid, 3,5-bis[[(1,1-dimethylethyl)diphenylsilyl]oxy]-7-[5-(4-methoxyphenyl)-3-methyl-4-isoxazolyl]-, methyl ester, [R*,S*-(E)]- (9CI)
(CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.

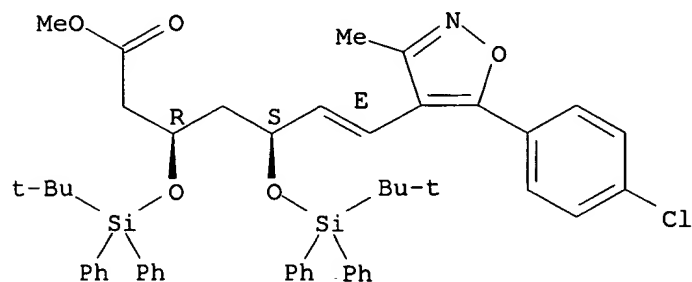


RN 113841-49-9 HCAPLUS

CN 6-Heptenoic acid, 7-[5-(4-chlorophenyl)-3-methyl-4-isoxazolyl]-3,5-bis[[1,1-dimethylethyl)diphenylsilyl]oxy]-, methyl ester, [R*,S*-(E)]-(9CI) (CA INDEX NAME)

Relative stereochemistry.

Double bond geometry as shown.

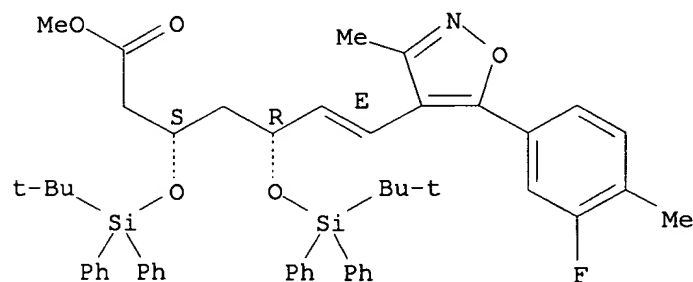


RN 113841-50-2 HCAPLUS

CN 6-Heptenoic acid, 3,5-bis[[1,1-dimethylethyl)diphenylsilyl]oxy]-7-[5-(3-fluoro-4-methylphenyl)-3-methyl-4-isoxazolyl]-, methyl ester, [R*,S*-(E)]-(9CI) (CA INDEX NAME)

Relative stereochemistry.

Double bond geometry as shown.

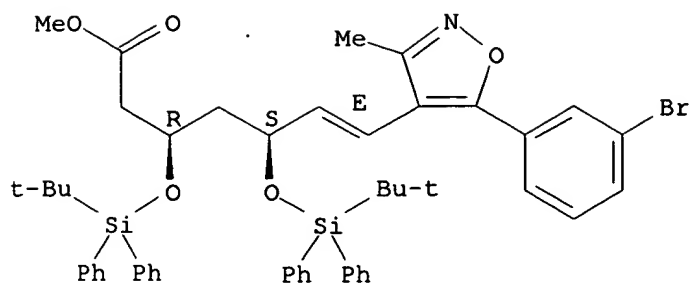


RN 113841-51-3 HCAPLUS

CN 6-Heptenoic acid, 7-[5-(3-bromophenyl)-3-methyl-4-isoxazolyl]-3,5-bis[[1,1-dimethylethyl)diphenylsilyl]oxy]-, methyl ester, [R*,S*-(E)]-(9CI) (CA INDEX NAME)

Relative stereochemistry.

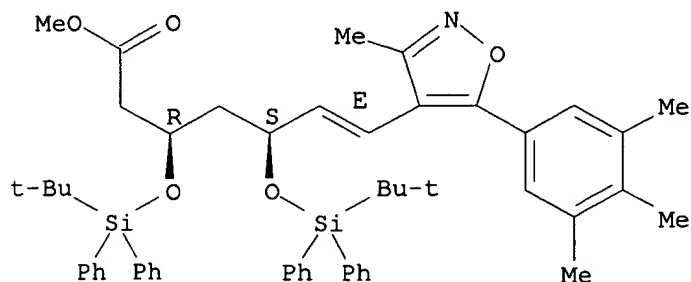
Double bond geometry as shown.



RN 113841-52-4 HCAPLUS

CN 6-Heptenoic acid, 3,5-bis[[(1,1-dimethylethyl)diphenylsilyl]oxy]-7-[3-methyl-5-(3,4,5-trimethylphenyl)-4-isoxazolyl]-, methyl ester, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

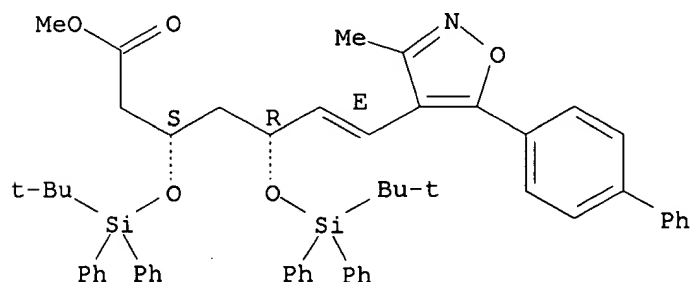
Relative stereochemistry.
Double bond geometry as shown.



RN 113841-53-5 HCAPLUS

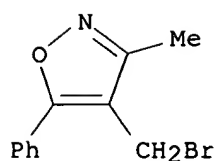
CN 6-Heptenoic acid, 7-(5-[1,1'-biphenyl]-4-yl-3-methyl-4-isoxazolyl)-3,5-bis[[(1,1-dimethylethyl)diphenylsilyl]oxy]-, methyl ester, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



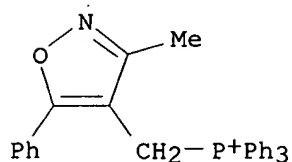
RN 113841-59-1 HCAPLUS

CN Isoxazole, 4-(bromomethyl)-3-methyl-5-phenyl- (9CI) (CA INDEX NAME)



RN 113841-60-4 HCAPLUS

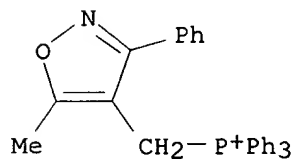
CN Phosphonium, [(3-methyl-5-phenyl-4-isoxazolyl)methyl]triphenyl-, chloride
(9CI) (CA INDEX NAME)



● Cl⁻

RN 113841-61-5 HCAPLUS

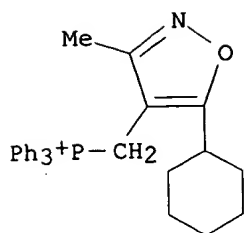
CN Phosphonium, [(5-methyl-3-phenyl-4-isoxazolyl)methyl]triphenyl-, bromide
(9CI) (CA INDEX NAME)



● Br⁻

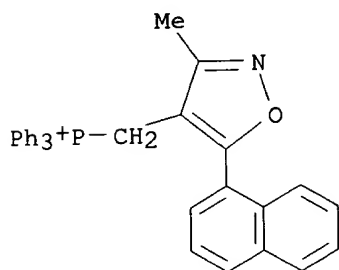
RN 113841-62-6 HCAPLUS

CN Phosphonium, [(5-cyclohexyl-3-methyl-4-isoxazolyl)methyl]triphenyl-,
bromide (9CI) (CA INDEX NAME)



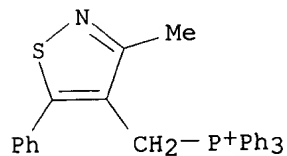
● Br⁻

RN 113841-63-7 HCAPLUS
CN Phosphonium, [[3-methyl-5-(1-naphthalenyl)-4-isoxazolyl]methyl]triphenyl-,
bromide (9CI) (CA INDEX NAME).



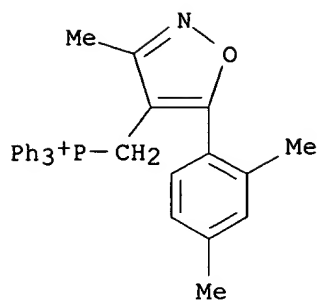
● Br⁻

RN 113841-64-8 HCAPLUS
CN Phosphonium, [(3-methyl-5-phenyl-4-isothiazolyl)methyl]triphenyl-, bromide
(9CI) (CA INDEX NAME)



● Br⁻

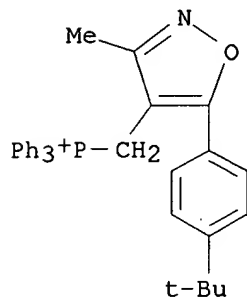
RN 113841-65-9 HCAPLUS
CN Phosphonium, [[5-(2,4-dimethylphenyl)-3-methyl-4-isoxazolyl]methyl]triphenyl-, bromide (9CI) (CA INDEX NAME)



● Br^-

RN 113841-67-1 HCAPLUS

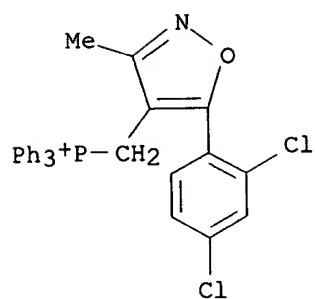
CN Phosphonium, [[5-[4-(1,1-dimethylethyl)phenyl]-3-methyl-4-isoxazolyl]methyl]triphenyl-, bromide (9CI) (CA INDEX NAME)



● Br^-

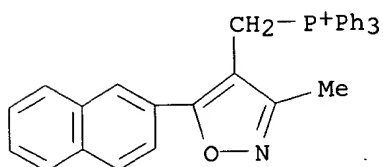
RN 113841-68-2 HCAPLUS

CN Phosphonium, [[5-(2,4-dichlorophenyl)-3-methyl-4-isoxazolyl]methyl]triphenyl-, bromide (9CI) (CA INDEX NAME)



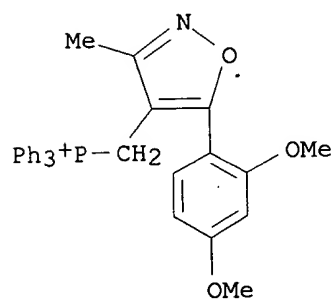
● Br⁻

RN 113841-69-3 HCAPLUS
 CN Phosphonium, [[3-methyl-5-(2-naphthalenyl)-4-isoxazolyl]methyl]triphenyl-,
 bromide (9CI) (CA INDEX NAME)



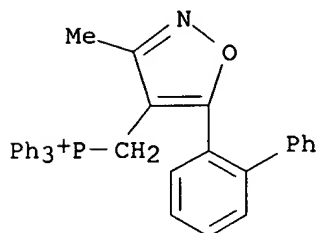
● Br⁻

RN 113841-70-6 HCAPLUS
 CN Phosphonium, [[5-(2,4-dimethoxyphenyl)-3-methyl-4-isoxazolyl]methyl]triphenyl-, bromide (9CI) (CA INDEX NAME)



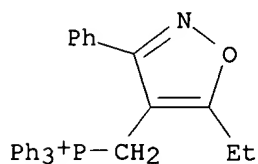
● Br⁻

RN 113841-71-7 HCAPLUS
 CN Phosphonium, [(5-[1,1'-biphenyl]-2-yl-3-methyl-4-isoxazolyl)methyl]triphenyl-, bromide (9CI) (CA INDEX NAME)



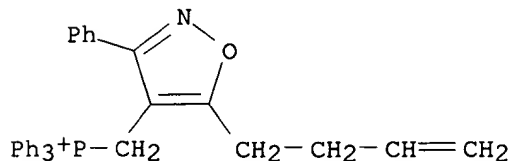
● Br⁻

RN 113841-72-8 HCAPLUS
 CN Phosphonium, [(5-ethyl-3-phenyl-4-isoxazolyl)methyl]triphenyl-, bromide (9CI) (CA INDEX NAME)



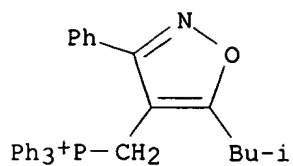
● Br⁻

RN 113841-73-9 HCAPLUS
 CN Phosphonium, [[5-(3-butenyl)-3-phenyl-4-isoxazolyl)methyl]triphenyl-, bromide (9CI) (CA INDEX NAME)



● Br⁻

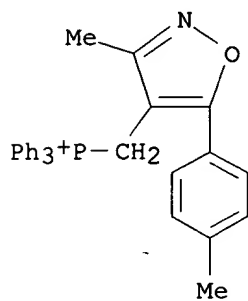
RN 113841-74-0 HCAPLUS
 CN Phosphonium, [[5-(2-methylpropyl)-3-phenyl-4-isoxazolyl)methyl]triphenyl-, bromide (9CI) (CA INDEX NAME)



● Br^-

RN 113841-75-1 HCAPLUS

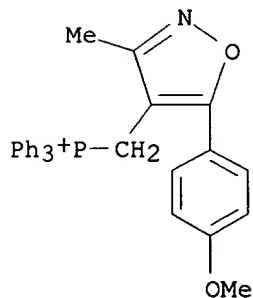
CN Phosphonium, [[3-methyl-5-(4-methylphenyl)-4-isoxazolyl]methyl]triphenyl-,
bromide (9CI) (CA INDEX NAME)



● Br^-

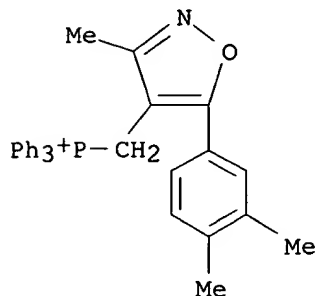
RN 113841-76-2 HCAPLUS

CN Phosphonium, [[5-(4-methoxyphenyl)-3-methyl-4-isoxazolyl]methyl]triphenyl-,
bromide (9CI) (CA INDEX NAME)



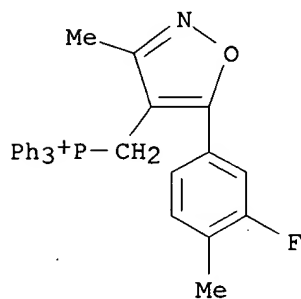
● Br^-

RN 113841-77-3 HCAPLUS
CN Phosphonium, [[5-(3,4-dimethylphenyl)-3-methyl-4-isoxazolyl]methyl]triphenyl-, bromide (9CI) (CA INDEX NAME)



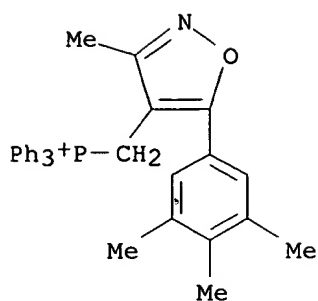
● Br⁻

RN 113841-78-4 HCAPLUS
CN Phosphonium, [[5-(3-fluoro-4-methylphenyl)-3-methyl-4-isoxazolyl]methyl]triphenyl-, bromide (9CI) (CA INDEX NAME)



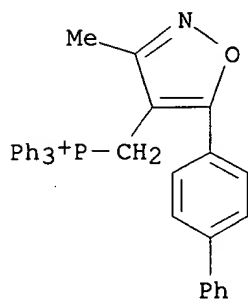
● Br⁻

RN 113841-79-5 HCAPLUS
CN Phosphonium, [[3-methyl-5-(3,4,5-trimethylphenyl)-4-isoxazolyl]methyl]triphenyl-, bromide (9CI) (CA INDEX NAME)



● Br⁻

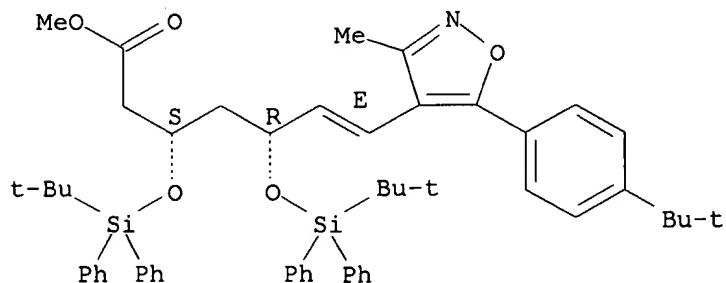
RN 113841-80-8 HCAPLUS
 CN Phosphonium, [(5-[1,1'-biphenyl]-4-yl-3-methyl-4-isoxazolyl)methyl]triphenyl-, bromide (9CI) (CA INDEX NAME)

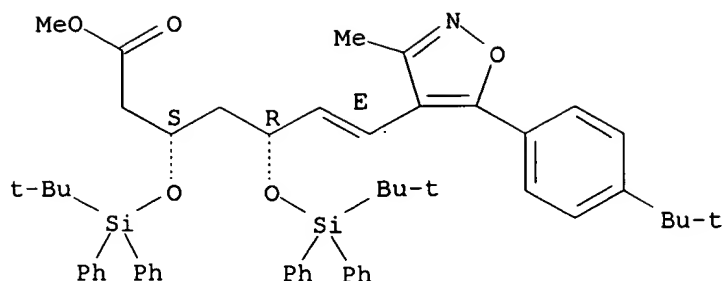


● Br⁻

RN 113879-76-8 HCAPLUS
 CN 6-Heptenoic acid, 3,5-bis[[(1,1-dimethylethyl)diphenylsilyl]oxy]-7-[5-[4-(1,1-dimethylethyl)phenyl]-3-methyl-4-isoxazolyl]-, methyl ester, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
 Double bond geometry as shown.

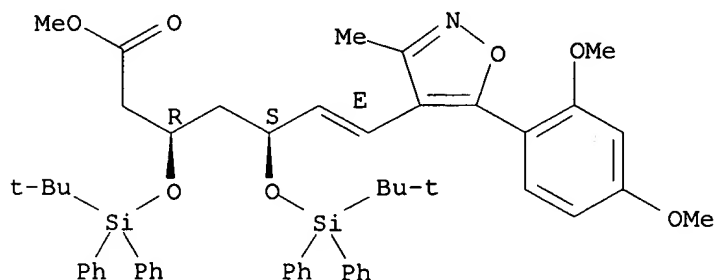




RN 113879-77-9 HCAPLUS

CN 6-Heptenoic acid, 7-[5-(2,4-dimethoxyphenyl)-3-methyl-4-isoxazolyl]-3,5-bis[[1,1-dimethylethyl)diphenylsilyl]oxy]-, methyl ester, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

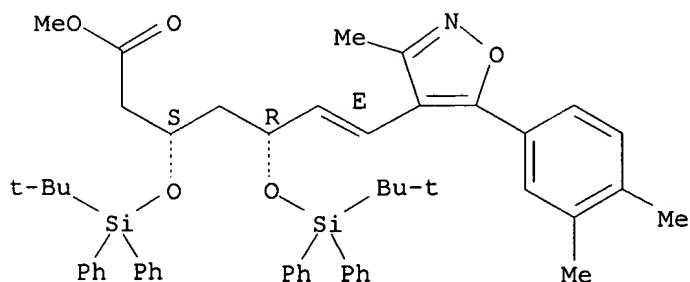
Relative stereochemistry.
Double bond geometry as shown.



RN 113879-78-0 HCAPLUS

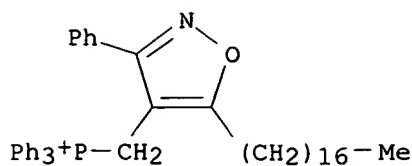
CN 6-Heptenoic acid, 3,5-bis[[1,1-dimethylethyl)diphenylsilyl]oxy]-7-[5-(3,4-dimethylphenyl)-3-methyl-4-isoxazolyl]-, methyl ester, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



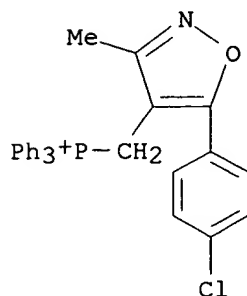
RN 113879-79-1 HCAPLUS

CN Phosphonium, [(5-heptadecyl-3-phenyl-4-isoxazolyl)methyl]triphenyl-, bromide (9CI) (CA INDEX NAME)



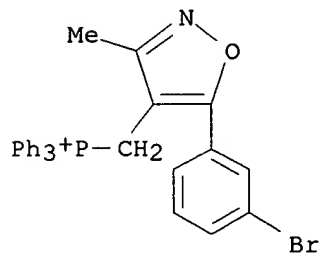
● Br^-

RN 113879-80-4 HCAPLUS
 CN Phosphonium, [[5-(4-chlorophenyl)-3-methyl-4-isoxazolyl]methyl]triphenyl-,
 bromide (9CI) (CA INDEX NAME)



● Br^-

RN 113879-81-5 HCAPLUS
 CN Phosphonium, [[5-(3-bromophenyl)-3-methyl-4-isoxazolyl]methyl]triphenyl-,
 bromide (9CI) (CA INDEX NAME)



● Br^-

IT 113826-46-3P 113826-47-4P 113826-48-5P
 113826-49-6P 113826-50-9P 113826-51-0P
 113826-52-1P 113826-53-2P 113826-54-3P

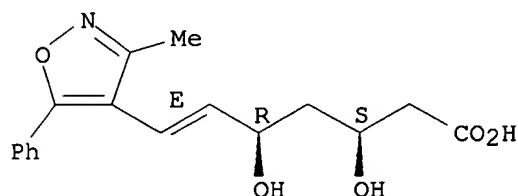
113826-55-4P 113826-56-5P 113826-57-6P
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 113826-61-2P 113826-62-3P 113826-63-4P
 113826-64-5P 113826-65-6P 113826-66-7P
 113826-67-8P 113826-68-9P 113826-69-0P
 113826-70-3P 113826-71-4P 113826-72-5P
 113826-73-6P 113826-74-7P 113826-75-8P
 113826-76-9P 113826-77-0P 113826-78-1P
 113826-79-2P 113826-80-5P 113826-81-6P
 113826-82-7P 113826-83-8P 113826-84-9P
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 113842-01-6P 113842-02-7P 113842-03-8P
 113842-04-9P 113842-05-0P 113842-06-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, as hypolipemic)

RN 113826-46-3 HCAPLUS

CN 6-Heptenoic acid, 3,5-dihydroxy-7-(3-methyl-5-phenyl-4-isoxazolyl)-,
 monosodium salt, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
 Double bond geometry as shown.

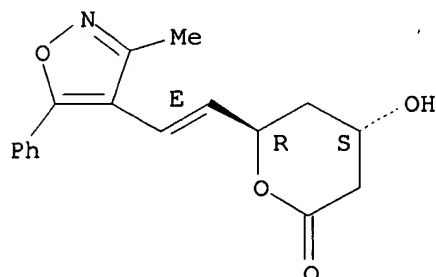


● Na

RN 113826-47-4 HCAPLUS

CN 2H-Pyran-2-one, tetrahydro-4-hydroxy-6-[2-(3-methyl-5-phenyl-4-isoxazolyl)ethenyl]-, [4.alpha.,6.beta.(E)]- (9CI) (CA INDEX NAME)

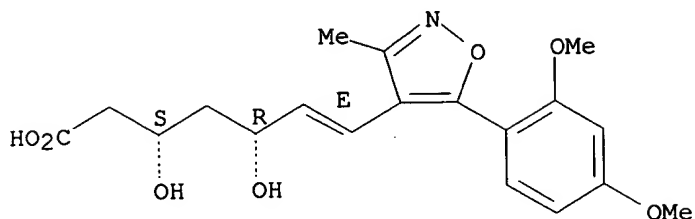
Relative stereochemistry.
 Double bond geometry as shown.



RN 113826-48-5 HCAPLUS

CN 6-Heptenoic acid, 7-[5-(2,4-dimethoxyphenyl)-3-methyl-4-isoxazolyl]-3,5-dihydroxy-, monosodium salt, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

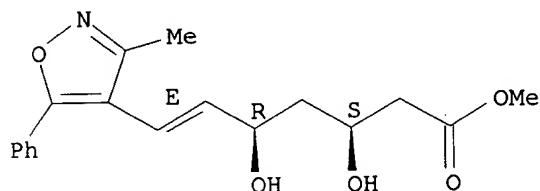
Relative stereochemistry.
Double bond geometry as shown.



● Na

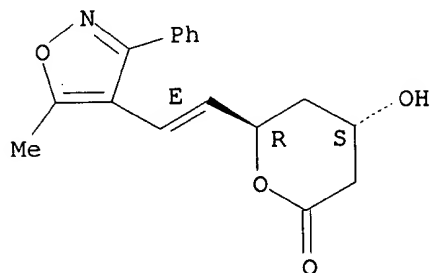
RN 113826-49-6 HCAPLUS
CN 6-Heptenoic acid, 3,5-dihydroxy-7-(3-methyl-5-phenyl-4-isoxazolyl)-, methyl ester, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



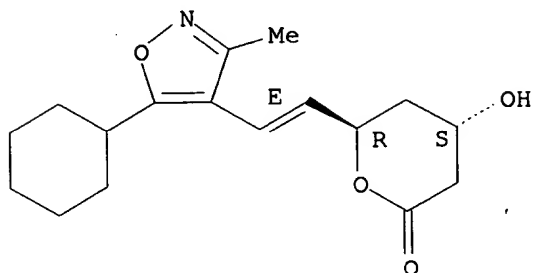
RN 113826-50-9 HCAPLUS
CN 2H-Pyran-2-one, tetrahydro-4-hydroxy-6-[2-(5-methyl-3-phenyl-4-isoxazolyl)ethenyl]-, [4.alpha.,6.beta.(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



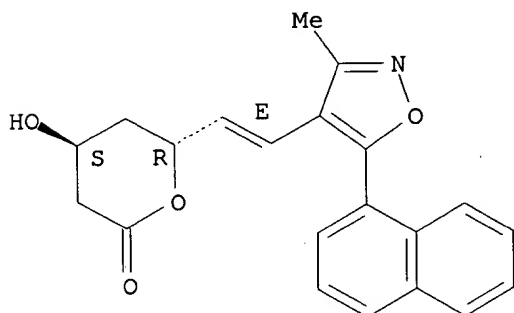
RN 113826-51-0 HCAPLUS
CN 2H-Pyran-2-one, 6-[2-(5-cyclohexyl-3-methyl-4-isoxazolyl)ethenyl]tetrahydro-4-hydroxy-, [4.alpha.,6.beta.(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



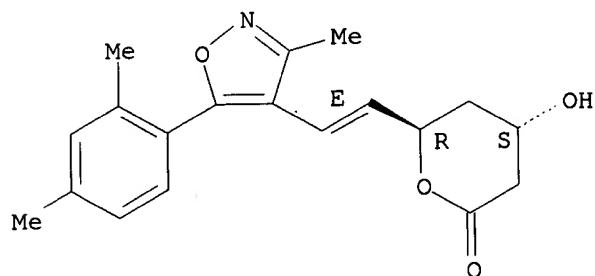
RN 113826-52-1 HCAPLUS
CN 2H-Pyran-2-one, tetrahydro-4-hydroxy-6-[2-[3-methyl-5-(1-naphthalenyl)-4-isoxazolyl]ethenyl]-, [4.alpha.,6.beta.(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



RN 113826-53-2 HCAPLUS
CN 2H-Pyran-2-one, 6-[2-[5-(2,4-dimethylphenyl)-3-methyl-4-isoxazolyl]ethenyl]tetrahydro-4-hydroxy-, [4.alpha.,6.beta.(E)]- (9CI) (CA INDEX NAME)

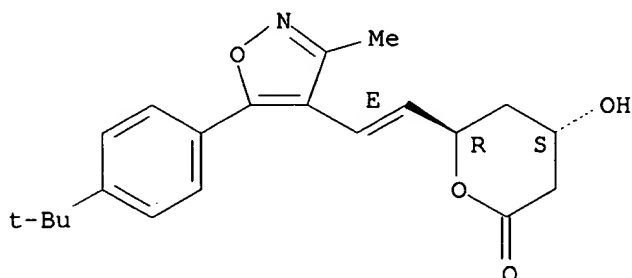
Relative stereochemistry.
Double bond geometry as shown.



RN 113826-54-3 HCAPLUS

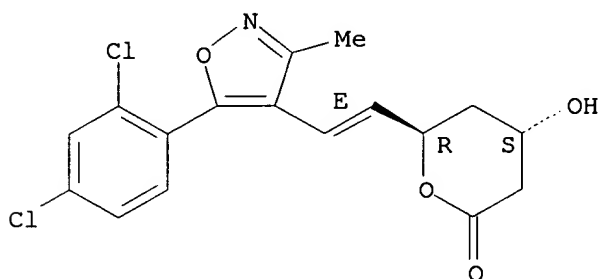
CN 2H-Pyran-2-one, 6-[2-[5-[4-(1,1-dimethylethyl)phenyl]-3-methyl-4-isoxazolyl]ethenyl]tetrahydro-4-hydroxy-, [4.alpha.,6.beta.(E)]- (9CI)
(CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



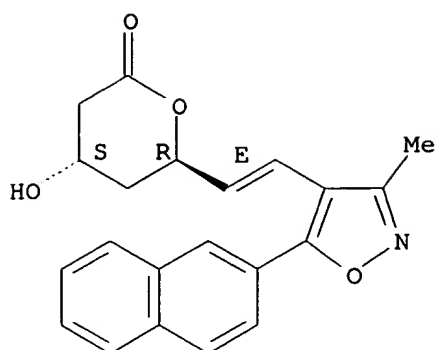
RN 113826-55-4 HCAPLUS
CN 2H-Pyran-2-one, 6-[2-[5-(2,4-dichlorophenyl)-3-methyl-4-isoxazolyl]ethenyl]tetrahydro-4-hydroxy-, [4.alpha.,6.beta.(E)]- (9CI)
(CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



RN 113826-56-5 HCAPLUS
CN 2H-Pyran-2-one, tetrahydro-4-hydroxy-6-[2-[3-methyl-5-(2-naphthalenyl)-4-isoxazolyl]ethenyl]-, [4.alpha.,6.beta.(E)]- (9CI) (CA INDEX NAME)

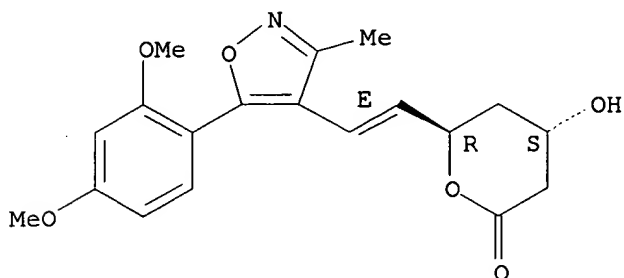
Relative stereochemistry.
Double bond geometry as shown.



RN 113826-57-6 HCAPLUS

CN 2H-Pyran-2-one, 6-[2-[5-(2,4-dimethoxyphenyl)-3-methyl-4-isoxazolyl]ethenyl]tetrahydro-4-hydroxy-, [4.alpha.,6.beta.(E)]- (9CI)
(CA INDEX NAME)

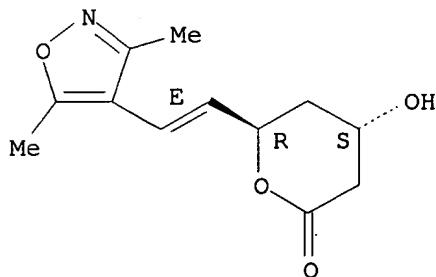
Relative stereochemistry.
Double bond geometry as shown.



RN 113826-58-7 HCAPLUS

CN 2H-Pyran-2-one, 6-[2-(3,5-dimethyl-4-isoxazolyl)ethenyl]tetrahydro-4-hydroxy-, [4.alpha.,6.beta.(E)]- (9CI) (CA INDEX NAME)

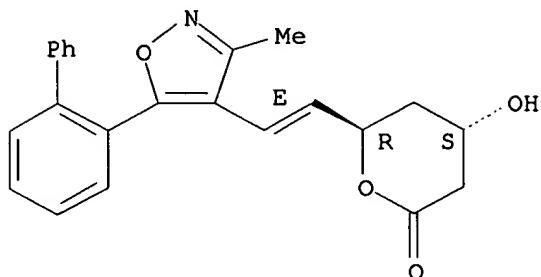
Relative stereochemistry.
Double bond geometry as shown.



RN 113826-59-8 HCAPLUS

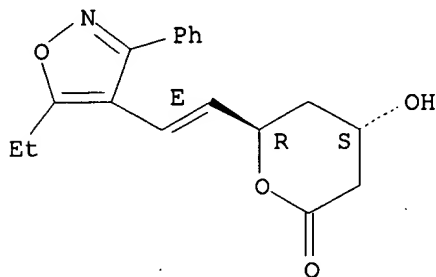
CN 2H-Pyran-2-one, 6-[2-(5-[1,1'-biphenyl]-2-yl-3-methyl-4-isoxazolyl)ethenyl]tetrahydro-4-hydroxy-, [4.alpha.,6.beta.(E)]- (9CI)
(CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



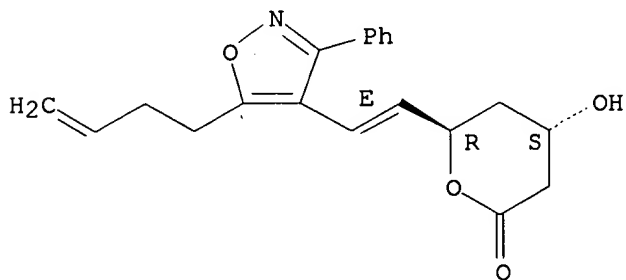
RN 113826-60-1 HCAPLUS
CN 2H-Pyran-2-one, 6-[2-(5-ethyl-3-phenyl-4-isoxazolyl)ethenyl]tetrahydro-4-hydroxy-, [4.alpha.,6.beta.(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



RN 113826-61-2 HCAPLUS
CN 2H-Pyran-2-one, 6-[2-[5-(3-butenyl)-3-phenyl-4-isoxazolyl]ethenyl]tetrahydro-4-hydroxy-, [4.alpha.,6.beta.(E)]- (9CI)
(CA INDEX NAME)

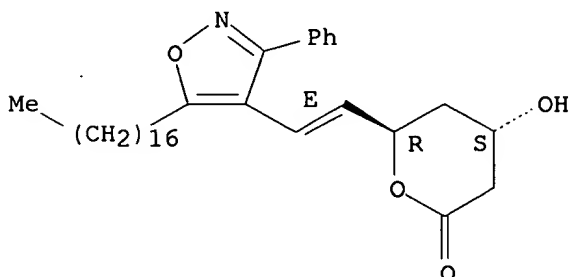
Relative stereochemistry.
Double bond geometry as shown.



RN 113826-62-3 HCAPLUS
CN 2H-Pyran-2-one, 6-[2-(5-heptadecyl-3-phenyl-4-

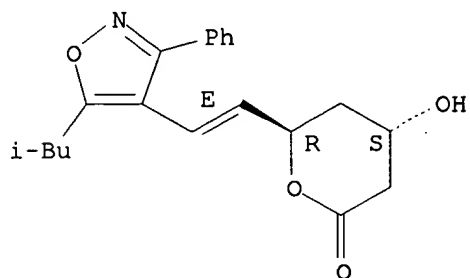
isoxazolyl]ethenyl]tetrahydro-4-hydroxy-, [4.alpha.,6.beta.(E)]- (9CI)
(CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



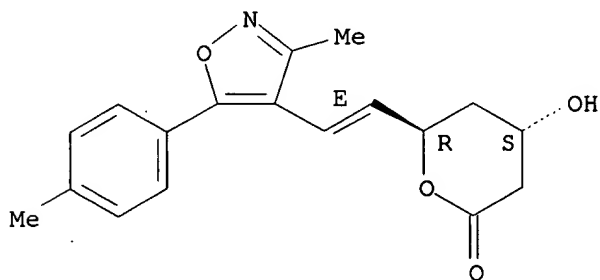
RN 113826-63-4 HCAPLUS
CN 2H-Pyran-2-one, tetrahydro-4-hydroxy-6-[2-[5-(2-methylpropyl)-3-phenyl-4-isoxazolyl]ethenyl]-, [4.alpha.,6.beta.(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



RN 113826-64-5 HCAPLUS
CN 2H-Pyran-2-one, tetrahydro-4-hydroxy-6-[2-[3-methyl-5-(4-methylphenyl)-4-isoxazolyl]ethenyl]-, [4.alpha.,6.beta.(E)]- (9CI) (CA INDEX NAME)

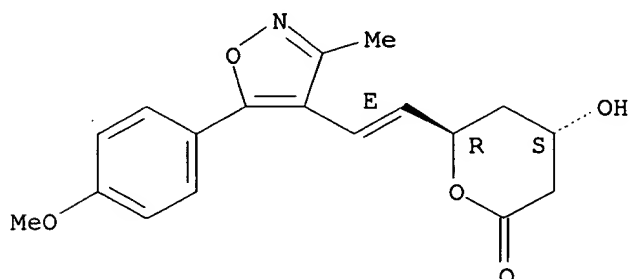
Relative stereochemistry.
Double bond geometry as shown.



RN 113826-65-6 HCAPLUS

CN 2H-Pyran-2-one, tetrahydro-4-hydroxy-6-[2-[5-(4-methoxyphenyl)-3-methyl-4-isoxazolyl]ethenyl]-, [4.alpha.,6.beta.(E)]- (9CI) (CA INDEX NAME)

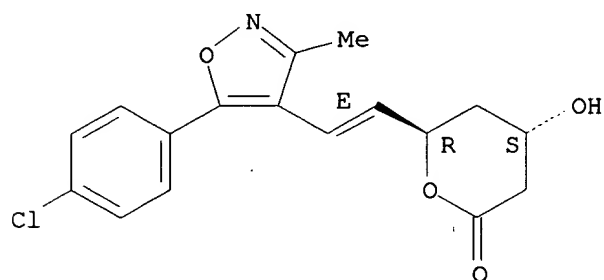
Relative stereochemistry.
Double bond geometry as shown.



RN 113826-66-7 HCAPLUS

CN 2H-Pyran-2-one, 6-[2-[5-(4-chlorophenyl)-3-methyl-4-isoxazolyl]ethenyl]tetrahydro-4-hydroxy-, [4.alpha.,6.beta.(E)]- (9CI)
(CA INDEX NAME)

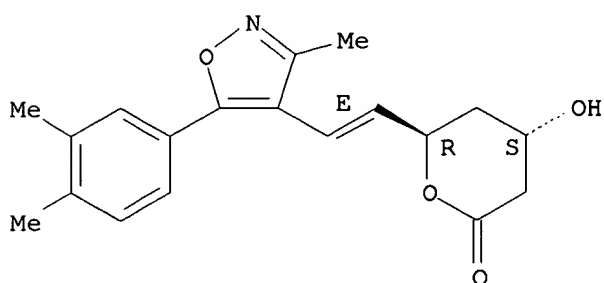
Relative stereochemistry.
Double bond geometry as shown.



RN 113826-67-8 HCAPLUS

CN 2H-Pyran-2-one, 6-[2-[5-(3,4-dimethylphenyl)-3-methyl-4-isoxazolyl]ethenyl]tetrahydro-4-hydroxy-, [4.alpha.,6.beta.(E)]- (9CI)
(CA INDEX NAME)

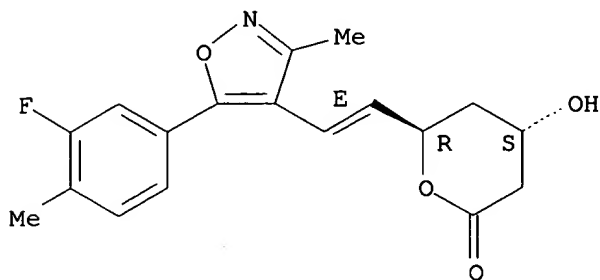
Relative stereochemistry.
Double bond geometry as shown.



RN 113826-68-9 HCAPLUS

CN 2H-Pyran-2-one, 6-[2-[5-(3-fluoro-4-methylphenyl)-3-methyl-4-isoxazolyl]ethenyl]tetrahydro-4-hydroxy-, [4.alpha.,6.beta.(E)]- (9CI)
(CA INDEX NAME)

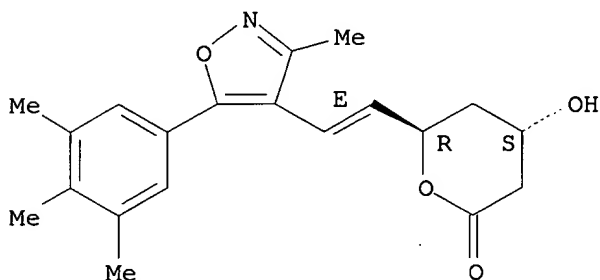
Relative stereochemistry.
Double bond geometry as shown.



RN 113826-69-0 HCAPLUS

CN 2H-Pyran-2-one, tetrahydro-4-hydroxy-6-[2-[3-methyl-5-(3,4,5-trimethylphenyl)-4-isoxazolyl]ethenyl]-, [4.alpha.,6.beta.(E)]- (9CI) (CA INDEX NAME)

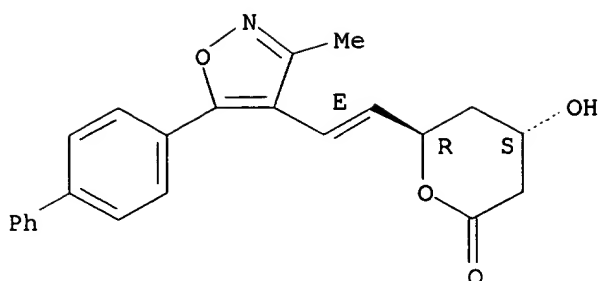
Relative stereochemistry.
Double bond geometry as shown.



RN 113826-70-3 HCAPLUS

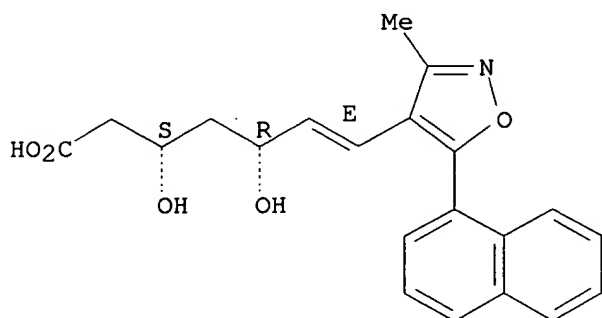
CN 2H-Pyran-2-one, 6-[2-(5-[1,1'-biphenyl]-4-yl-3-methyl-4-isoxazolyl)ethenyl]tetrahydro-4-hydroxy-, [4.alpha.,6.beta.(E)]- (9CI)
(CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



RN 113826-71-4 HCAPLUS
 CN 6-Heptenoic acid, 3,5-dihydroxy-7-[3-methyl-5-(1-naphthalenyl)-4-isoxazolyl]-, monosodium salt, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

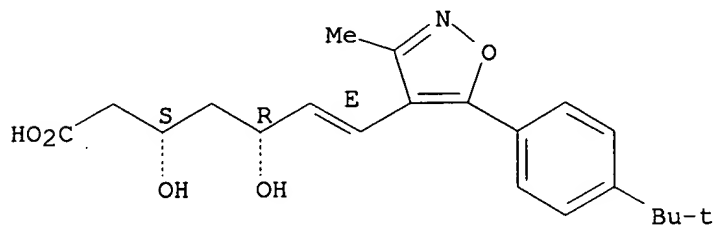
Relative stereochemistry.
 Double bond geometry as shown.



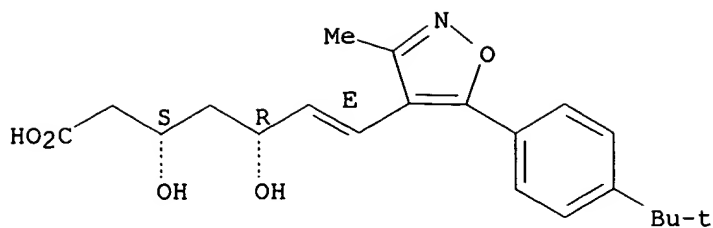
● Na

RN 113826-72-5 HCAPLUS
 CN 6-Heptenoic acid, 7-[5-[4-(1,1-dimethylethyl)phenyl]-3-methyl-4-isoxazolyl]-3,5-dihydroxy-, monosodium salt, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
 Double bond geometry as shown.



● Na

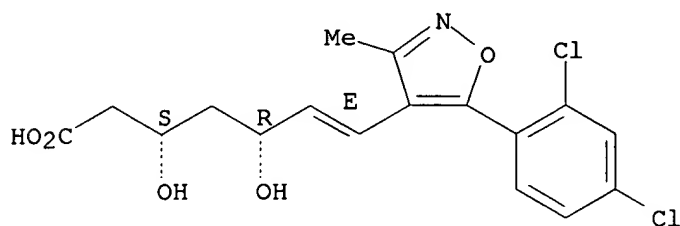


● Na

RN 113826-73-6 HCAPLUS

CN 6-Heptenoic acid, 7-[5-(2,4-dichlorophenyl)-3-methyl-4-isoxazolyl]-3,5-dihydroxy-, monosodium salt, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.

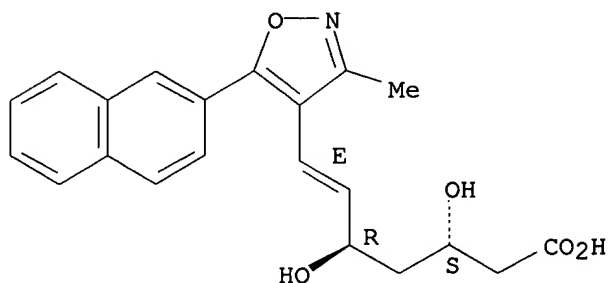


● Na

RN 113826-74-7 HCAPLUS

CN 6-Heptenoic acid, 3,5-dihydroxy-7-[3-methyl-5-(2-naphthalenyl)-4-isoxazolyl]-, monosodium salt, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.

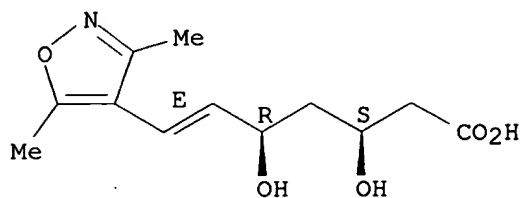


● Na

RN 113826-75-8 HCAPLUS

CN 6-Heptenoic acid, 7-(3,5-dimethyl-4-isoxazolyl)-3,5-dihydroxy-, monosodium salt, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.

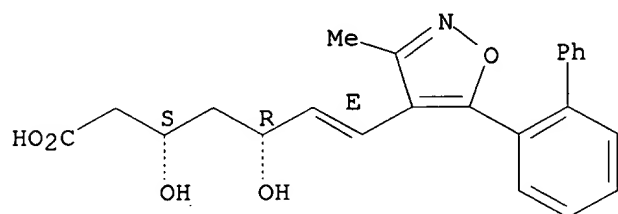


● Na

RN 113826-76-9 HCAPLUS

CN 6-Heptenoic acid, 7-(5-[1,1'-biphenyl]-2-yl-3-methyl-4-isoxazolyl)-3,5-dihydroxy-, monosodium salt, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.

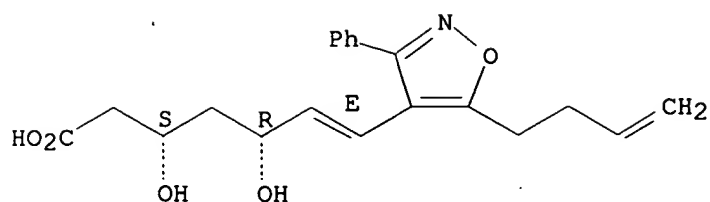


● Na

RN 113826-77-0 HCAPLUS

CN 6-Heptenoic acid, 7-[5-(3-butenyl)-3-phenyl-4-isoxazolyl]-3,5-dihydroxy-, monosodium salt, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.

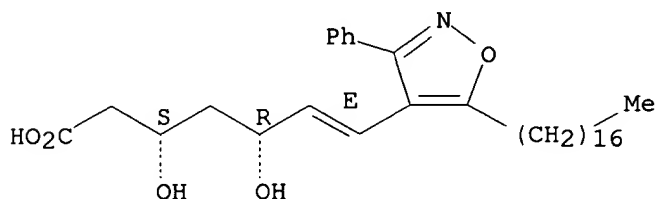


● Na

RN 113826-78-1 HCAPLUS

CN 6-Heptenoic acid, 7-(5-heptadecyl-3-phenyl-4-isoxazolyl)-3,5-dihydroxy-, monosodium salt, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.

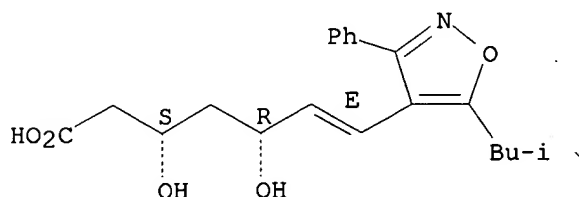


● Na

RN 113826-79-2 HCAPLUS

CN 6-Heptenoic acid, 3,5-dihydroxy-7-[5-(2-methylpropyl)-3-phenyl-4-isoxazolyl]-, monosodium salt, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.

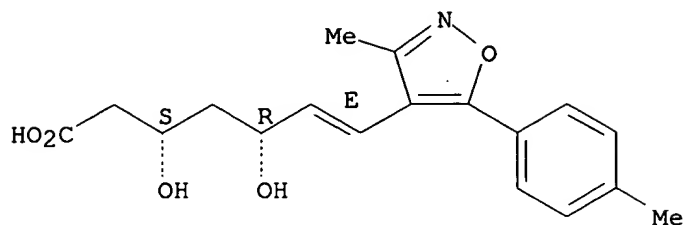


● Na

RN 113826-80-5 HCAPLUS

CN 6-Heptenoic acid, 3,5-dihydroxy-7-[3-methyl-5-(4-methylphenyl)-4-isoxazolyl]-, monosodium salt, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

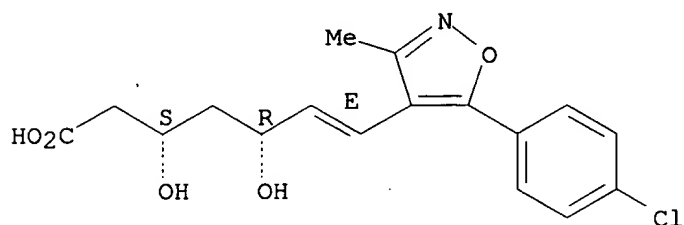
Relative stereochemistry.
Double bond geometry as shown.



● Na

RN 113826-81-6 HCAPLUS
CN 6-Heptenoic acid, 7-[5-(4-chlorophenyl)-3-methyl-4-isoxazolyl]-3,5-dihydroxy-, monosodium salt, [R*, S*-(E)]- (9CI) (CA INDEX NAME)

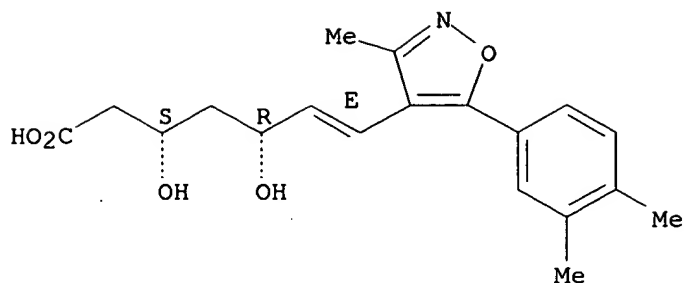
Relative stereochemistry.
Double bond geometry as shown.



● Na

RN 113826-82-7 HCAPLUS
CN 6-Heptenoic acid, 7-[5-(3,4-dimethylphenyl)-3-methyl-4-isoxazolyl]-3,5-dihydroxy-, monosodium salt, [R*, S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.

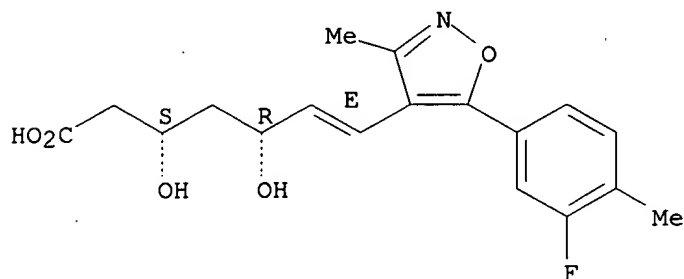


● Na

RN 113826-83-8 HCAPLUS

CN 6-Heptenoic acid, 7-[5-(3-fluoro-4-methylphenyl)-3-methyl-4-isoxazolyl]-3,5-dihydroxy-, monosodium salt, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.

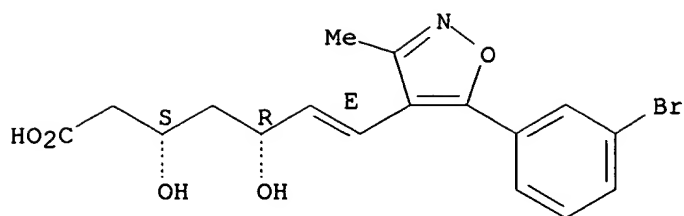


● Na

RN 113826-84-9 HCAPLUS

CN 6-Heptenoic acid, 7-[5-(3-bromophenyl)-3-methyl-4-isoxazolyl]-3,5-dihydroxy-, monosodium salt, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



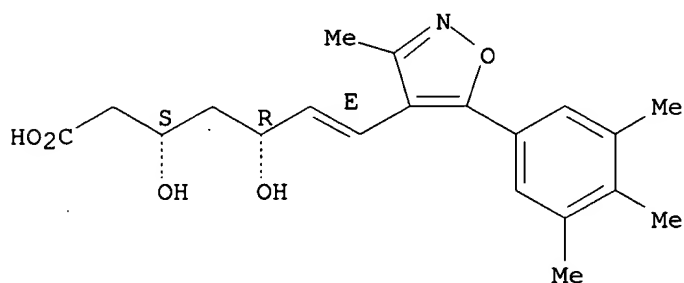
● Na

RN 113826-85-0 HCAPLUS

CN 6-Heptenoic acid, 3,5-dihydroxy-7-[3-methyl-5-(3,4,5-trimethylphenyl)-4-isoxazolyl]-, monosodium salt, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

Double bond geometry as shown.



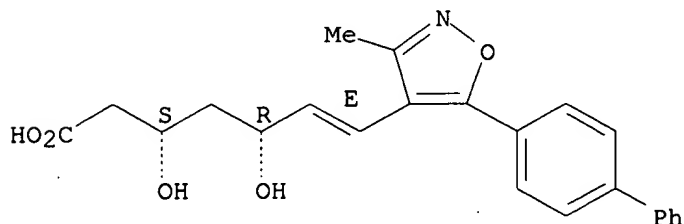
● Na

RN 113826-86-1 HCAPLUS

CN 6-Heptenoic acid, 7-(5-[1,1'-biphenyl]-4-yl-3-methyl-4-isoxazolyl)-3,5-dihydroxy-, monosodium salt, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

Double bond geometry as shown.



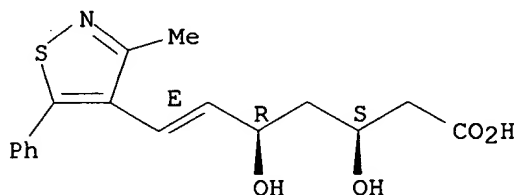
● Na

RN 113830-85-6 HCAPLUS

CN 6-Heptenoic acid, 3,5-dihydroxy-7-(3-methyl-5-phenyl-4-isothiazolyl)-, monosodium salt, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

Double bond geometry as shown.



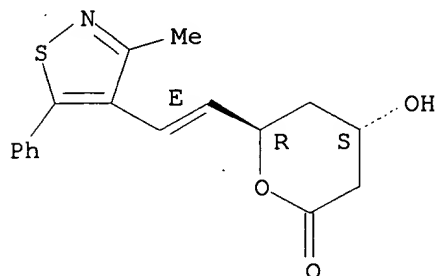
● Na

RN 113842-01-6 HCAPLUS

CN 2H-Pyran-2-one, tetrahydro-4-hydroxy-6-[2-(3-methyl-5-phenyl-4-isothiazolyl)ethenyl]-, [4.alpha.,6.beta.(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

Double bond geometry as shown.

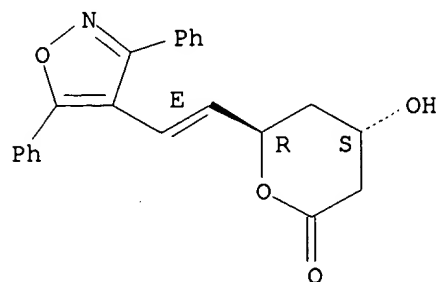


RN 113842-02-7 HCAPLUS

CN 2H-Pyran-2-one, 6-[2-(3,5-diphenyl-4-isoxazolyl)ethenyl]tetrahydro-4-hydroxy-, [4.alpha.,6.beta.(E)]- (9CI) (CA INDEX NAME)

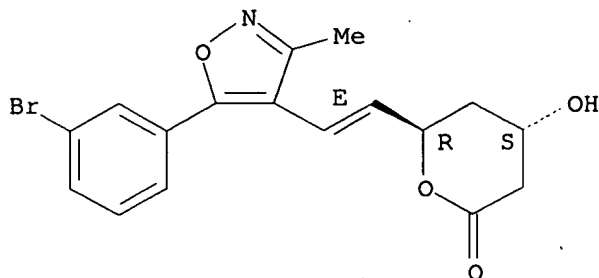
Relative stereochemistry.

Double bond geometry as shown.



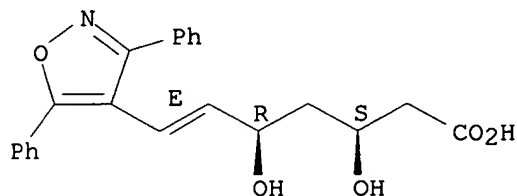
RN 113842-03-8 HCAPLUS
 CN 2H-Pyran-2-one, 6-[2-[5-(3-bromophenyl)-3-methyl-4-isoxazolyl]ethenyl]tetrahydro-4-hydroxy-, [4.alpha.,6.beta.(E)]- (9CI)
 (CA INDEX NAME)

Relative stereochemistry.
 Double bond geometry as shown.



RN 113842-04-9 HCAPLUS
 CN 6-Heptenoic acid, 7-(3,5-diphenyl-4-isoxazolyl)-3,5-dihydroxy-, monosodium salt, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

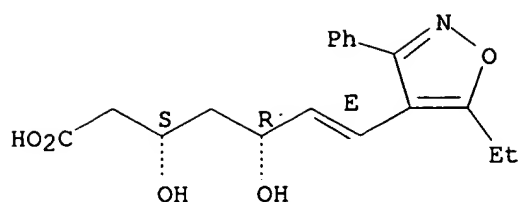
Relative stereochemistry.
 Double bond geometry as shown.



● Na

RN 113842-05-0 HCAPLUS
 CN 6-Heptenoic acid, 7-(5-ethyl-3-phenyl-4-isoxazolyl)-3,5-dihydroxy-, monosodium salt, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
 Double bond geometry as shown.

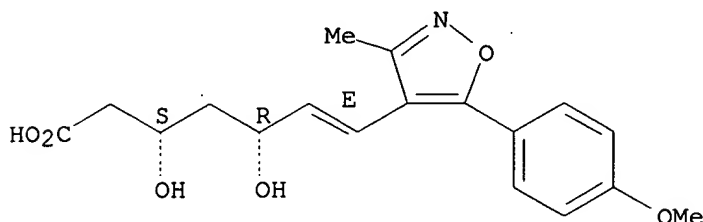


● Na

RN 113842-06-1 HCAPLUS

CN 6-Heptenoic acid, 3,5-dihydroxy-7-[5-(4-methoxyphenyl)-3-methyl-4-isoxazolyl]-, monosodium salt, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



● Na

IT 1143-82-4 19788-37-5 24477-14-3

92029-29-3 99299-07-7 113841-30-8

113841-31-9 113841-81-9 113841-82-0

113841-83-1 113841-84-2 113841-85-3

113841-86-4 113841-87-5 113841-88-6

113841-89-7 113841-90-0 113841-91-1

113841-92-2 113841-93-3 113841-94-4

113841-95-5 113841-96-6 113841-97-7

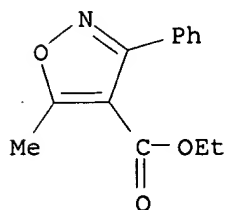
113841-98-8 113841-99-9 113842-00-5

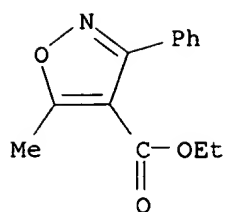
RL: RCT (Reactant)

(reaction of, in prepn. of hypolipemics)

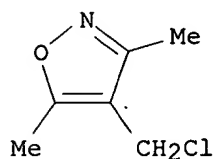
RN 1143-82-4 HCAPLUS

CN 4-Isioxazolecarboxylic acid, 5-methyl-3-phenyl-, ethyl ester (7CI, 8CI, 9CI) . (CA INDEX NAME)

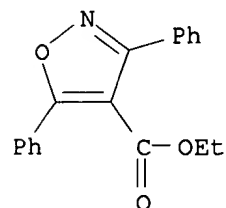




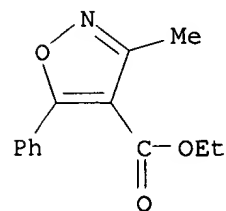
RN 19788-37-5 HCAPLUS
 CN Isoxazole, 4-(chloromethyl)-3,5-dimethyl- (6CI, 8CI, 9CI) (CA INDEX NAME)



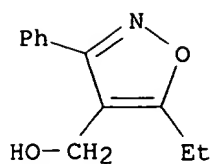
RN 24477-14-3 HCAPLUS
 CN 4-Isioxazolecarboxylic acid, 3,5-diphenyl-, ethyl ester (6CI, 8CI, 9CI)
 (CA INDEX NAME)



RN 92029-29-3 HCAPLUS
 CN 4-Isioxazolecarboxylic acid, 3-methyl-5-phenyl-, ethyl ester (7CI, 9CI)
 (CA INDEX NAME)

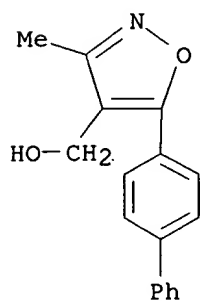


RN 99299-07-7 HCAPLUS
 CN 4-Isioxazolemethanol, 5-ethyl-3-phenyl- (9CI) (CA INDEX NAME)



RN 113841-30-8 HCAPLUS

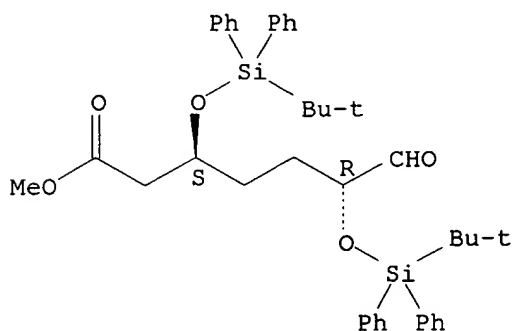
CN 4-Isioxazolemethanol, 5-[1,1'-biphenyl]-4-yl-3-methyl- (9CI) (CA INDEX NAME)



RN 113841-31-9 HCAPLUS

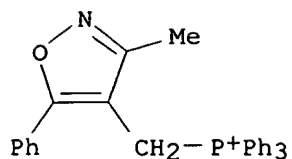
CN Heptanoic acid, 3,6-bis[[1,1-dimethylethyl]diphenylsilyl]oxy]-7-oxo-, methyl ester, (R*,S*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



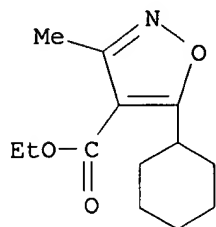
RN 113841-81-9 HCAPLUS

CN Phosphonium, [(3-methyl-5-phenyl-4-isoxazolyl)methyl]triphenyl-, bromide (9CI) (CA INDEX NAME)



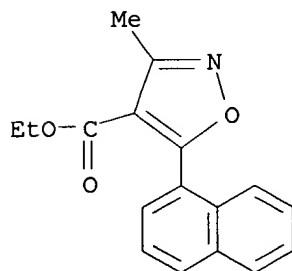
RN 113841-82-0 HCAPLUS

CN 4-Isioxazolecarboxylic acid, 5-cyclohexyl-3-methyl-, ethyl ester (9CI) (CA INDEX NAME)



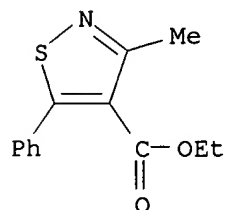
RN 113841-83-1 HCAPLUS

CN 4-Isioxazolecarboxylic acid, 3-methyl-5-(1-naphthalenyl)-, ethyl ester (9CI) (CA INDEX NAME)

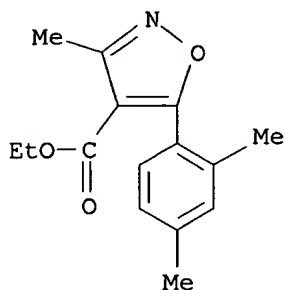


RN 113841-84-2 HCAPLUS

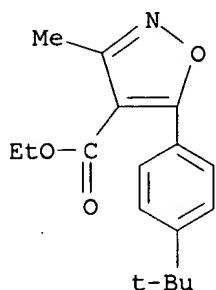
CN 4-Isiothiazolecarboxylic acid, 3-methyl-5-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



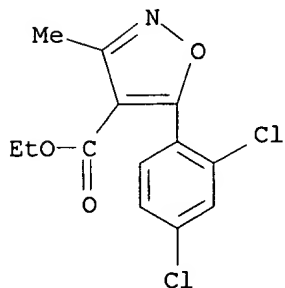
RN 113841-85-3 HCAPLUS
CN 4-Isoxazolecarboxylic acid, 5-(2,4-dimethylphenyl)-3-methyl-, ethyl ester
(9CI) (CA INDEX NAME)



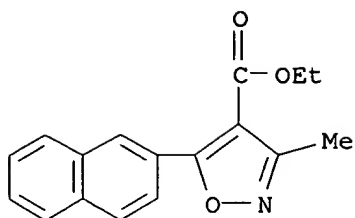
RN 113841-86-4 HCAPLUS
CN 4-Isoxazolecarboxylic acid, 5-[4-(1,1-dimethylethyl)phenyl]-3-methyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 113841-87-5 HCAPLUS
CN 4-Isoxazolecarboxylic acid, 5-(2,4-dichlorophenyl)-3-methyl-, ethyl ester
(9CI) (CA INDEX NAME)

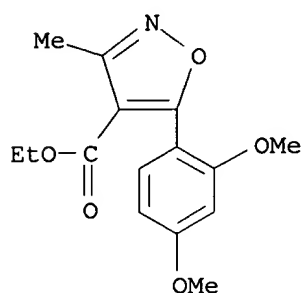


RN 113841-88-6 HCAPLUS
CN 4-Isoxazolecarboxylic acid, 3-methyl-5-(2-naphthalenyl)-, ethyl ester
(9CI) (CA INDEX NAME)



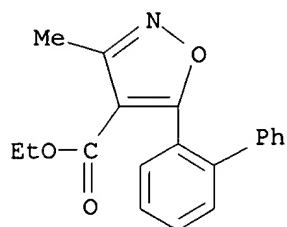
RN 113841-89-7 HCAPLUS

CN 4-Isioxazolecarboxylic acid, 5-(2,4-dimethoxyphenyl)-3-methyl-, ethyl ester
(9CI) (CA INDEX NAME)



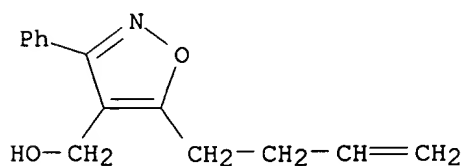
RN 113841-90-0 HCAPLUS

CN 4-Isioxazolecarboxylic acid, 5-[1,1'-biphenyl]-2-yl-3-methyl-, ethyl ester
(9CI) (CA INDEX NAME)



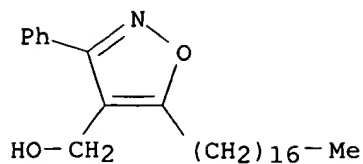
RN 113841-91-1 HCAPLUS

CN 4-Isioxazolemethanol, 5-(3-butenyl)-3-phenyl- (9CI) (CA INDEX NAME)



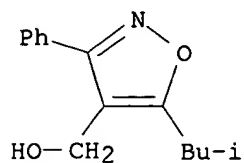
RN 113841-92-2 HCAPLUS

CN 4-Isioxazolemethanol, 5-heptadecyl-3-phenyl- (9CI) (CA INDEX NAME)



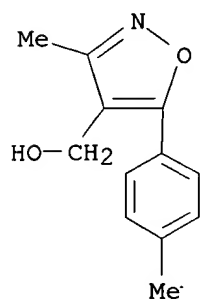
RN 113841-93-3 HCAPLUS

CN 4-Isioxazolemethanol, 5-(2-methylpropyl)-3-phenyl- (9CI) (CA INDEX NAME)



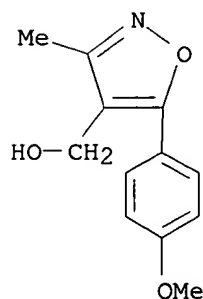
RN 113841-94-4 HCAPLUS

CN 4-Isioxazolemethanol, 3-methyl-5-(4-methylphenyl)- (9CI) (CA INDEX NAME)



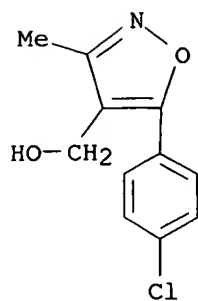
RN 113841-95-5 HCAPLUS

CN 4-Isioxazolemethanol, 5-(4-methoxyphenyl)-3-methyl- (9CI) (CA INDEX NAME)



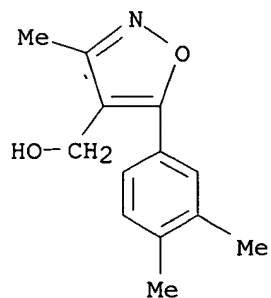
RN 113841-96-6 HCAPLUS

CN 4-Isioxazolemethanol, 5-(4-chlorophenyl)-3-methyl- (9CI) (CA INDEX NAME)



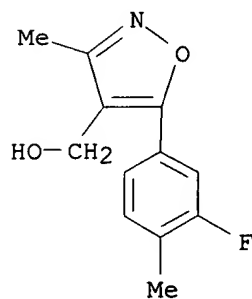
RN 113841-97-7 HCAPLUS

CN 4-Isioxazolemethanol, 5-(3,4-dimethylphenyl)-3-methyl- (9CI) (CA INDEX NAME)



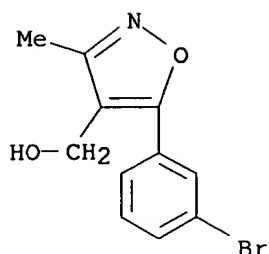
RN 113841-98-8 HCAPLUS

CN 4-Isioxazolemethanol, 5-(3-fluoro-4-methylphenyl)-3-methyl- (9CI) (CA INDEX NAME)



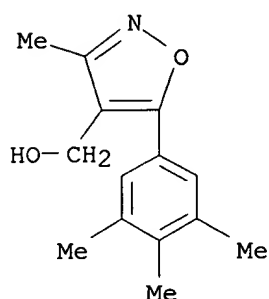
RN 113841-99-9 HCAPLUS

CN 4-Isioxazolemethanol, 5-(3-bromophenyl)-3-methyl- (9CI) (CA INDEX NAME)



RN 113842-00-5 HCAPLUS

CN 4-Isioxazolemethanol, 3-methyl-5-(3,4,5-trimethylphenyl)- (9CI) (CA INDEX NAME)



L18 ANSWER 7 OF 11 HCAPLUS COPYRIGHT 2001 ACS

AN 1988:108556 HCAPLUS

DN 108:108556

TI .beta.-Glucosidases from cellulolytic fungi *Aspergillus terreus*, *Geotrichum candidum* and *Trichoderma longibrachiatum* as typical glycosidases

AU Rodionova, N. A.; Tavobilov, I. M.; Martinovich, L. I.; Buachidze, T. Sh.; Kvesitadze, G. I.; Bezborodov, A. M.

CS A. N. Bakh Inst. Biochem., Moscow, 117071, USSR

SO Biotechnol. Appl. Biochem. (1987), 9(3), 239-50

CODEN: BABIEC; ISSN: 0885-4513

DT Journal

LA English

AB By EtOH pptn. and chromatog. on Sephadex SP, DEAE (or DEAE-cellulose), and G-200, .beta.-glucosidases (EC 3.2.1.21) were isolated from the culture filtrates of the cellulolytic fungi *A. terreus*, *G. candidum*, and *T. longibrachiatum* grown on medium with **cellulose**-contg. materials. The enzymes were purified to homogeneity. The substrate specificities of the enzymes were studied. The .beta.-glucosidases had higher affinity for p-nitrophenyl-.beta.-D-glucopyranoside than for cellobiose (K_m values of 1.25, 0.34, 0.20, and 5.4, 2.0, 1.2 mM, resp., for the *A. terreus*, *G. candidum*, and *T. longibrachiatum* enzymes) and were able to hydrolyze both laminaribiose and gentiobiose, but were unable to cleave cotton fiber, **carboxymethylcellulose**, and other glycans to reducing sugars. The enzymes also showed transglycosylase activity. K_i Values for the arylglucosidase activity of .beta.-glucosidases from *A. terreus*, *G. candidum*, and *T. longibrachiatum* in the presence of glucose or glucono-1,5-

lactone were 12.2, 6.0, 2.1 and 0.20, 0.19, 0.07 mM, resp. The mol. wts. of the enzymes of the 3 species were estd. by gel filtration and by sedimentation equil. centrifugation to be 200,000, 200,000, and 350,000, resp. The pI values of the .beta.-glucosidases were 4.8, 5.9, and 4.2, resp. The optimum temps. and pH values were 60, 50, and 50.degree. and 4.5, 4.5, and 4.8-5.7, resp. These properties appear to relate the .beta.-glucosidases obtained in the present study to typical glycosidases.

IT 9001-22-3P, .beta.-Glucosidase

RL: PREP (Preparation)

(of cellulolytic fungi, purifn. and properties of)

RN 9001-22-3 HCAPLUS

CN Glucosidase, .beta.- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 528-50-7, Cellobiose 2492-87-7, p-Nitrophenyl-.beta.-D-glucopyranoside

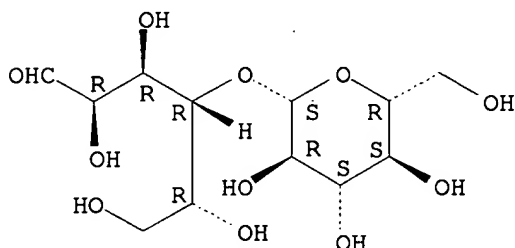
RL: RCT (Reactant)

(reaction of, with .beta.-glucosidase of cellulolytic fungi, kinetics of)

RN 528-50-7 HCAPLUS

CN D-Glucose, 4-O-.beta.-D-glucopyranosyl- (6CI, 9CI) (CA INDEX NAME)

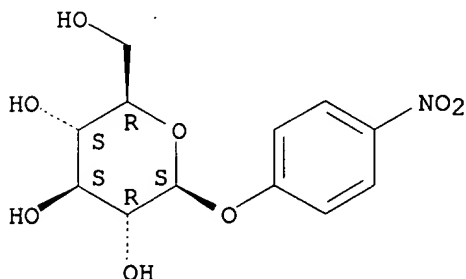
Absolute stereochemistry.



RN 2492-87-7 HCAPLUS

CN .beta.-D-Glucopyranoside, 4-nitrophenyl (9CI) (CA INDEX NAME)

Absolute stereochemistry.



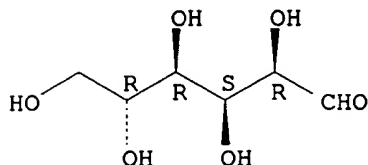
IT 50-99-7, Glucose, biological studies 90-80-2, Glucono-1,5-lactone

RL: BIOL (Biological study)

(.beta.-glucosidase of cellulolytic fungi inhibition by, kinetics of)

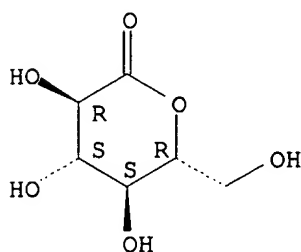
RN 50-99-7 HCAPLUS
 CN D-Glucose (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 90-80-2 HCAPLUS
 CN D-Gluconic acid, .delta.-lactone (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L18 ANSWER 8 OF 11 HCAPLUS COPYRIGHT 2001 ACS
 AN 1986:197096 HCAPLUS
 DN 104:197096
 TI Solvent for the dye of a pressure-sensitive recording paper
 IN Kawakami, Shigenobu; Matsuzaka, Eiichi; Narui, Satoshi; Takahashi, Naoya
 PA Nippon Petrochemicals Co., Ltd., Japan
 SO Eur. Pat. Appl., 19 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 166454	A2	19860102	EP 1985-108050	19850628
	EP 166454	A3	19870107		
	EP 166454	B1	19890517		
	R: BE, DE, FR, GB, IT				
	JP 61012389	A2	19860120	JP 1984-135540	19840629
	JP 04027957	B4	19920513		
	US 4661165	A	19870428	US 1985-745909	19850618
	CA 1241668	A1	19880906	CA 1985-484440	19850619
	ES 544691	A1	19860901	ES 1985-544691	19850628
PRAI	JP 1984-135540		19840629		

AB A solvent comprising a fraction having a b.p. of 270-350.degree. which is prepd. by distg. the heavier products obtained from the process for producing ethyltoluene by alkylating PhMe with ethylene in the presence of a synthetic zeolite catalyst is used in the making of a colorless dye

precursor soln. during its microencapsulation for the prepn. of pressure-sensitive recording paper. Thus, PhMe was alkylated with ethylene at 450.degree. in the presence of the synthetic zeolite ZSM-5 [H+-type, SiO₂/Al₂O₃ (mol. ratio) = 60]. The heavier products were distd. under reduced pressure to obtain a fraction having a b.p. of 275-320.degree. and mainly comprising diarylalkanes. Crystal violet lactone 5 g was dissolved in the fraction 100 g, gelatin added, microencapsulated with **carboxymethylcellulose** and glutaraldehyde, coated on a paper support to give a pressure-sensitive recording paper which was used with an activated clay-coated developing paper to give blue images with improved d. as compared to a control using a solvent prepd. from ethylene and C₆H₆.

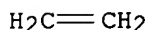
IT 74-85-1, reactions

RL: RCT (Reactant)

(alkylation of toluene by, diarylalkane solvents from, for leuco dyes for pressure-sensitive copying paper)

RN 74-85-1 HCAPLUS

CN Ethene (9CI) (CA INDEX NAME)



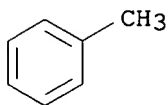
IT 108-88-3, reactions

RL: RCT (Reactant)

(alkylation of, by ethylene, biarylalkane solvents from, for leuco dyes for pressure-sensitive copying paper)

RN 108-88-3 HCAPLUS

CN Benzene, methyl- (9CI) (CA INDEX NAME)



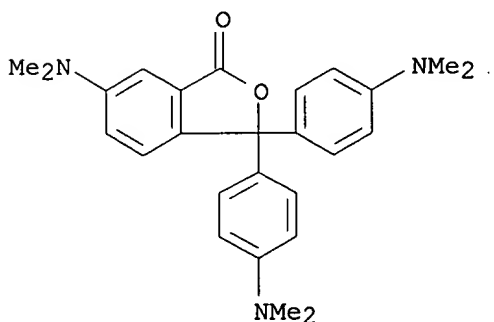
IT 1552-42-7

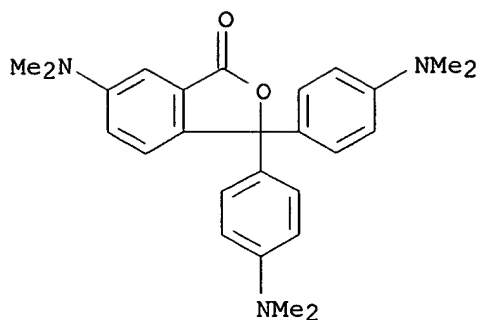
RL: USES (Uses)

(microencapsulated color-forming soln. contg., in diarylalkanes for pressure-sensitive copying papers)

RN 1552-42-7 HCAPLUS

CN 1(3H)-Isobenzofuranone, 6-(dimethylamino)-3,3-bis[4-(dimethylamino)phenyl]- (9CI) (CA INDEX NAME)





L18 ANSWER 9 OF 11 HCAPLUS COPYRIGHT 2001 ACS

AN 1978:510181 HCAPLUS

DN 89:110181

TI Chemical synthesis of branched polysaccharides, 6. Binding of mono-, di- and oligosaccharides to various carriers via amide linkage

AU Emmerling, Winfried N.; Pfannmueller, Beate

CS Inst. Makromol. Chem., Univ. Freiburg, Freiburg/Br., Ger.

SO Makromol. Chem. (1978), 179(6), 1627-33

CODEN: MACEAK; ISSN: 0025-116X

DT Journal

LA English

AB Carriers having either carboxylic or amino groups including polyfunctional low mol. wt. substances, synthetic polymers, and biopolymers were condensed with sugars with either amino or carboxylic end groups to give carbohydrates with amide linkages. Among the carriers used were adipic acid, **carboxymethylamylose**, poly(acrylic acid), $\text{NH}_2(\text{CH}_2)_n\text{NH}_2$ ($n = 2, 6, 8, 10$), and poly(L-lysine); the acid carriers were used, in the condensation reaction, as p-nitrophenyl esters. The amino or carboxy sugars used in the condensation were derived from glucose, maltose, or **maltooligosaccharides**. Thus, an aldonic acid **lactone**, derived from a glucopyranose, was condensed with $\text{NH}_2(\text{CH}_2)_2\text{NH}_2$ to give N-(2-aminoethyl)amide of aldonic acid, which was treated with p-nitrophenyl adipate to give a coupled product ($\text{C}_{22}\text{H}_{42}\text{N}_4\text{O}_{14}$).

IT 32564-25-3P 67391-52-0P 67400-19-5P

67400-20-8P 67426-85-1P 67426-86-2P

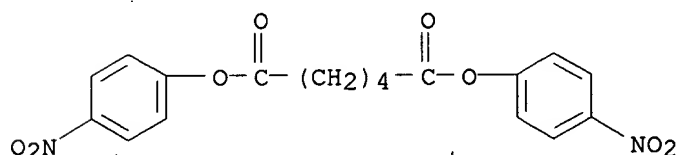
RL: RCT (Reactant); SPN (Synthetic preparation); **PREP**

(Preparation)

(prepn. and reaction of, with 2-aminoethylamide of adipic acid)

RN 32564-25-3 HCAPLUS

CN Hexanedioic acid, bis(4-nitrophenyl) ester (9CI) (CA INDEX NAME)



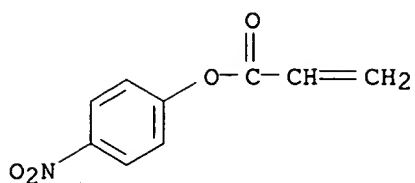
RN 67391-52-0 HCAPLUS

CN 2-Propenoic acid, 4-nitrophenyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

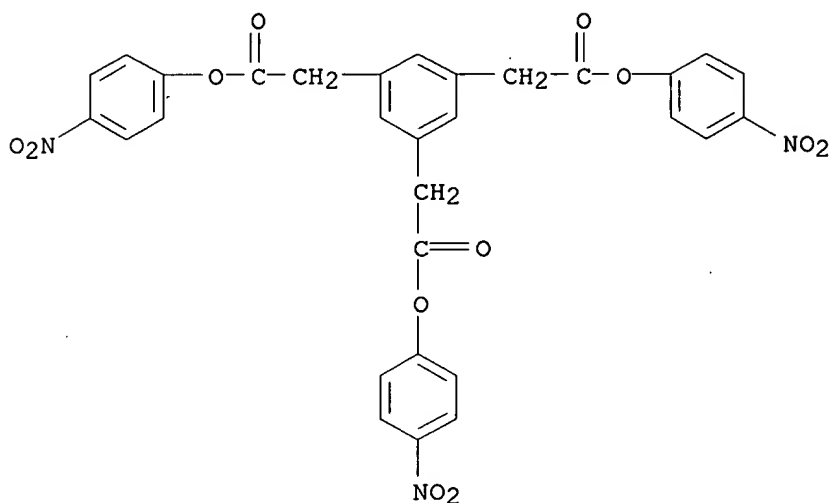
CRN 2123-85-5

CMF C9 H7 N O4



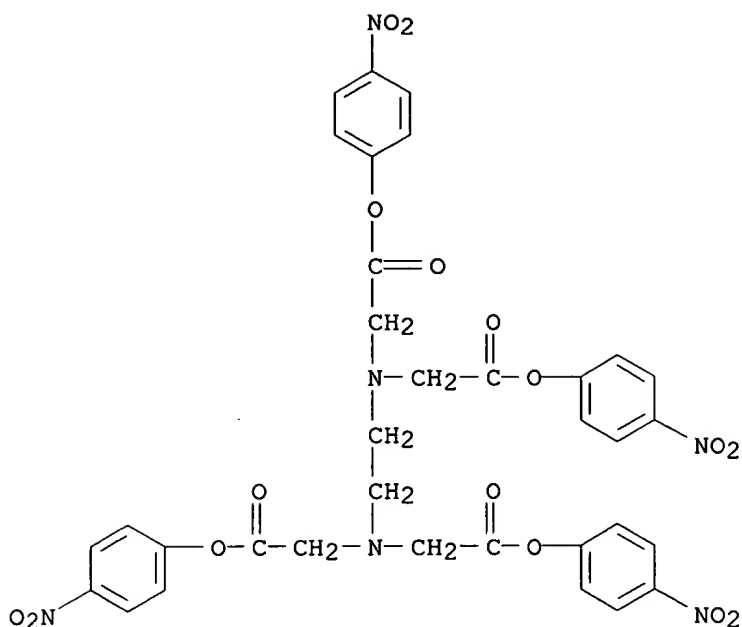
RN 67400-19-5 HCAPLUS

CN 1,3,5-Benzenetriacetic acid, tris(4-nitrophenyl) ester (9CI) (CA INDEX NAME)



RN 67400-20-8 HCAPLUS

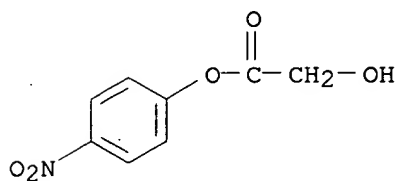
CN Glycine, N,N'-1,2-ethanediylbis[N-[2-(4-nitrophenoxy)-2-oxoethyl]-, bis(4-nitrophenyl) ester (9CI) (CA INDEX NAME)



RN 67426-85-1 HCAPLUS
 CN Amylose, 2-(4-nitrophenoxy)-2-oxoethyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 15396-81-3
 CMF C8 H7 N O5



CM 2

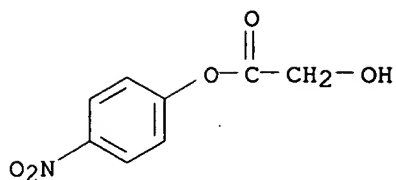
CRN 9005-82-7
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 67426-86-2 HCAPLUS
 CN Cellulose, 2-(4-nitrophenoxy)-2-oxoethyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 15396-81-3
 CMF C8 H7 N O5



CM 2

CRN 9004-34-6

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 124-09-4DP, reaction products with aldonic acid lactones
 373-44-4DP, reaction products with aldonic acid lactones
 646-25-3DP, reaction products with aldonic acid lactones
 25104-18-1DP, reaction products with aldonic acid lactones
 RL: SPN (Synthetic preparation); **PREP (Preparation)**
 (prepn. of)

RN 124-09-4 HCAPLUS

CN 1,6-Hexanediamine (7CI, 8CI, 9CI) (CA INDEX NAME)

H₂N-(CH₂)₆-NH₂

RN 373-44-4 HCAPLUS

CN 1,8-Octanediamine (6CI, 8CI, 9CI) (CA INDEX NAME)

H₂N-(CH₂)₈-NH₂

RN 646-25-3 HCAPLUS

CN 1,10-Decanediamine (6CI, 8CI, 9CI) (CA INDEX NAME)

H₂N-(CH₂)₁₀-NH₂

RN 25104-18-1 HCAPLUS

CN L-Lysine, homopolymer (9CI) (CA INDEX NAME)

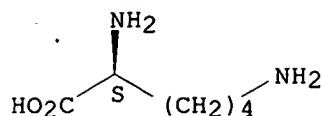
CM 1

CRN 56-87-1

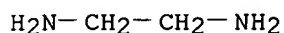
CMF C6 H14 N2 O2

CDES 5:L

Absolute stereochemistry.

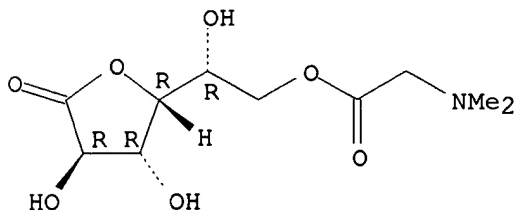


IT 107-15-3D, reaction products with aldonic acid lactones
 RL: RCT (Reactant)
 (reaction of, with nitrophenyl carboxylates)
 RN 107-15-3 HCAPLUS
 CN 1,2-Ethanediamine (9CI) (CA INDEX NAME)



L18 ANSWER 10 OF 11 HCAPLUS COPYRIGHT 2001 ACS
 AN 1975:579446 HCAPLUS
 DN 83:179446
 TI Synthesis of 6-O-dimethylglycyl-D-glucono-1,4-lactone (pangamolactone) and its salts
 AU Murase, Kiyoshi; Murakami, Masuo
 CS Kawanouchi Cent. Res. Lab., Tokyo, Japan
 SO Yamanouchi Seiyaku Kenkyu Hokoku (1974), 2, 62-5
 CODEN: YSKHDO
 DT Journal
 LA Japanese
 AB D-glucono-1,4-lactone 3,5-phenylborate (I, R = H), prepd. by heating D-glucono-1,4-lactone with triphenylboroxal in methylcellosolve, was condensed with Me₂NCH₂CO₂H-HCl to give I R = COCH₂NMe₂.cntdot.HCl, which was treated with (HOCH₂)₂CH₂ to give pangamolactone (II). II cellulose acetate phthalate and II carboxymethylcellulose were also prepd.
 IT 16820-88-5P 29031-21-8P 29031-22-9P
 57074-71-2P 57074-72-3P 57328-12-8P
 57372-71-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 16820-88-5 HCAPLUS
 CN D-Gluconic acid, .gamma.-lactone, 6-ester with N,N-dimethylglycine, hydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

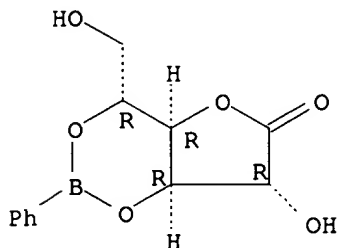


● HCl

RN 29031-21-8 HCAPLUS

CN D-Gluconic acid, .gamma.-lactone, cyclic 3,5-(phenylboronate) (9CI) (CA INDEX NAME)

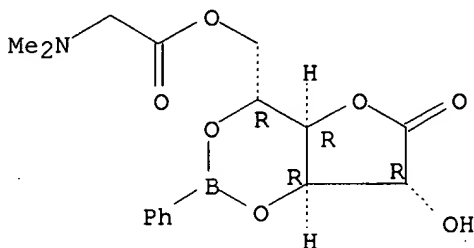
Absolute stereochemistry.



RN 29031-22-9 HCAPLUS

CN D-Gluconic acid, .gamma.-lactone, cyclic 3,5-(phenylboronate), 6-ester with N,N-dimethylglycine, hydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

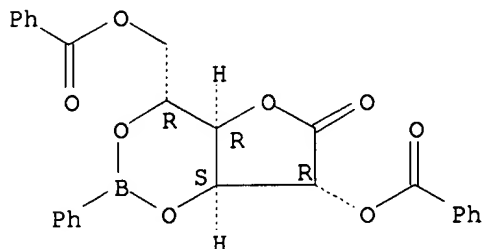


● HCl

RN 57074-71-2 HCAPLUS

CN D-Gluconic acid, .gamma.-lactone, cyclic 3,5-(phenylboronate) 2,6-dibenzoate (9CI) (CA INDEX NAME)

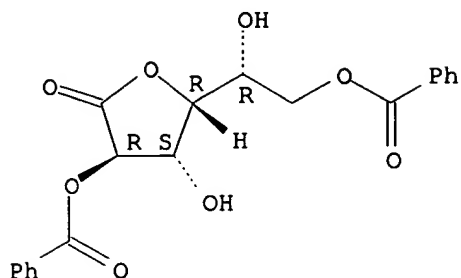
Absolute stereochemistry.



RN 57074-72-3 HCAPLUS

CN D-Gluconic acid, .gamma.-lactone, 2,6-dibenzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

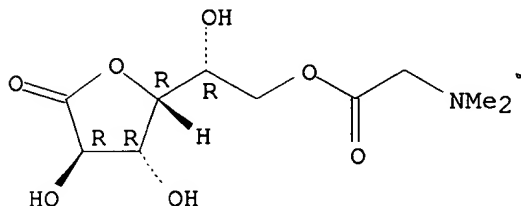


RN 57328-12-8 HCAPLUS
 CN D-Gluconic acid, .gamma.-lactone, 6-ester with N,N-dimethylglycine, compd.
 with cellulose carboxymethyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 34044-40-1
 CMF C10 H17 N O7
 CDES 5:D-GLUCO

Absolute stereochemistry.



CM 2

CRN 9000-11-7
 CMF C2 H4 O3 . x Unspecified
 CDES 8:GD,ETHER

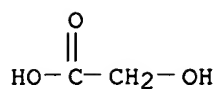
CM 3

CRN 9004-34-6
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 4

CRN 79-14-1
 CMF C2 H4 O3



RN 57372-71-1 HCAPLUS

CN D-Gluconic acid, .gamma.-lactone, 6-ester with N,N-dimethylglycine, compd. with cellulose acetate hydrogen 1,2-benzenedicarboxylate (9CI) (CA INDEX NAME)

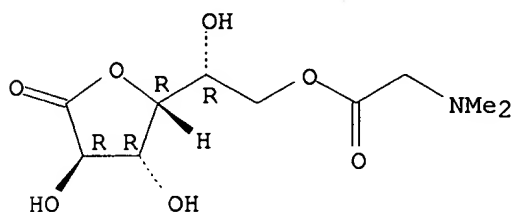
CM 1

CRN 34044-40-1

CMF C10 H17 N O7

CDES 5:D-GLUCO

Absolute stereochemistry.



CM 2

CRN 9004-38-0

CMF C8 H6 O4 . x C2 H4 O2 . x Unspecified

CDES 8:GD1

CM 3

CRN 9004-34-6

CMF Unspecified

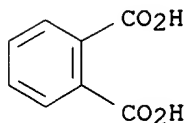
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 4

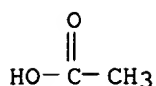
CRN 88-99-3

CMF C8 H6 O4

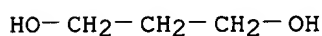


CM 5

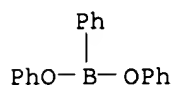
CRN 64-19-7
CMF C2 H4 O2



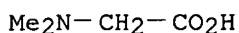
IT 504-63-2
RL: RCT (Reactant)
(reaction with (dimethylglycyl)gluconolactone phenylboronate)
RN 504-63-2 HCAPLUS
CN 1,3-Propanediol (8CI, 9CI) (CA INDEX NAME)



IT 2938-75-2
RL: RCT (Reactant)
(reaction with gluconolactone)
RN 2938-75-2 HCAPLUS
CN Boronic acid, phenyl-, diphenyl ester (9CI) (CA INDEX NAME)



IT 2491-06-7
RL: RCT (Reactant)
(reaction with gluconolactone phenylboronate)
RN 2491-06-7 HCAPLUS
CN Glycine, N,N-dimethyl-, hydrochloride (6CI, 8CI, 9CI) (CA INDEX NAME)



● HCl

IT 9004-32-4 57285-68-4
RL: RCT (Reactant)
(reaction with pangamolactone)
RN 9004-32-4 HCAPLUS
CN Cellulose, carboxymethyl ether, sodium salt (8CI, 9CI) (CA INDEX NAME)

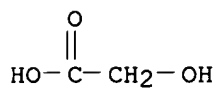
CM 1

CRN 9004-34-6
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 79-14-1
CMF C2 H4 O3



RN 57285-68-4 HCAPLUS
CN Cellulose, acetate hydrogen 1,2-benzenedicarboxylate, lithium salt (9CI)
(CA INDEX NAME)

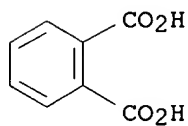
CM 1

CRN 9004-34-6
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

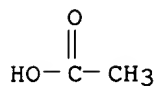
CM 2

CRN 88-99-3
CMF C8 H6 O4



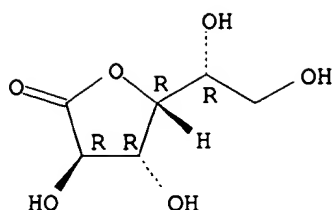
CM 3

CRN 64-19-7
CMF C2 H4 O2



IT 1198-69-2
RL: RCT (Reactant)
(reaction with triphenylboroxal)
RN 1198-69-2 HCAPLUS
CN D-Gluconic acid, .gamma.-lactone (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L18 ANSWER 11 OF 11 HCAPLUS COPYRIGHT 2001 ACS

AN 1975:163069 HCAPLUS

DN 82:163069

TI Microcapsule dispersion for copying papers

IN Iwasaki, Hiroshi; Nishimoto, Yoshiyuki; Tada, Tomonori; Takekawa, Yasuo

PA Kanzaki Paper Mfg. Co., Ltd.

SO Ger. Offen., 18 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2423830	A1	19741212	DE 1974-2423830	19740516
	DE 2423830	C3	19791115		
	DE 2423830	B2	19790329		
	JP 50005280	A2	19750120	JP 1973-55773	19730518
	ZA 7403090	A	19750528	ZA 1974-3090	19740514
	AU 7468952	A1	19751120	AU 1974-68952	19740515
PRAI	JP 1973-55773		19730518		

AB In the encapsulation of hydrophobic leuco dye solns. for self-contained or transfer copy-type papers capsules of superior resistivity to humidity, which can be hardened by aldehydes without adjustment of pH, can be obtained by use of hydrolyzed styrene-maleic anhydride co- or terpolymers in form of their NH₄ salts. Per 100 parts hydrophilic colloids, such as gelatin or **carboxymethyl cellulose**, 10-200 parts of hydrolyzate is used with 5-500% of its wt. of a C1-3 mono- or C2-10 dialdehyde. Thus, a soln. of crystal violet **lactone 2** and N-benzoylleucomethylene blue 1 g in isopropylbiphenyl 100 g of 60.degree. was dispersed to 4-5.mu. droplets in a soln. of acid-processed gelatin 30 g in water 470 g of 60.degree.. Next 10% aq. gum arabic 300 g and water 200 g, both of 60.degree., were added, a coacervate film formed by addn. of HOAc to pH 4.3 and the film gelled at 10.degree.. After addn. of pentanedial 10 g and 20% aq. hydrolysate 100 g the dispersion of pH 5.2 was coated on paper at 5 g/m². After 20 hr at 50.degree. and 90% relative humidity the paper appeared unchanged and yielded clear copies.

IT 50-00-0, uses and miscellaneous 111-30-8

RL: USES (Uses)

(in microcapsule dispersion prepn. for copying papers of improve resistance to humidity)

RN 50-00-0 HCAPLUS

CN Formaldehyde (8CI, 9CI) (CA INDEX NAME)

H₂C=O

RN 111-30-8 HCAPLUS
 CN Pentanedial (9CI) (CA INDEX NAME)

OHC-(CH₂)₃-CHO

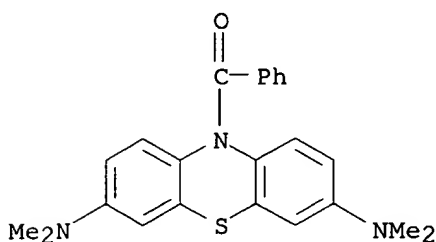
IT 1249-97-4 1552-42-7

RL: USES (Uses)

(microincapsulation of, hydrolyzed styrene-maleic anhydride polymer ammonium salts in, for copying papers of improved moisture resistance)

RN 1249-97-4 HCAPLUS

CN 10H-Phenothiazine-3,7-diamine, 10-benzoyl-N,N,N',N'-tetramethyl- (9CI)
 (CA INDEX NAME)



RN 1552-42-7 HCAPLUS

CN 1(3H)-Isobenzofuranone, 6-(dimethylamino)-3,3-bis[4-(dimethylamino)phenyl]- (9CI) (CA INDEX NAME)

